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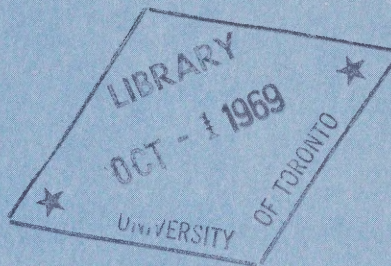
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Government
Publications



DEPARTMENT OF ENERGY, MINES AND RESOURCES
Ottawa



EAST GREENLAND, DENMARK STRAIT and IRMINGER SEA

January 16 to April 5, 1967

No. 4

1969 Data Record Series

Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1969

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Catalogue No. **M 58 - 1 / 1969 - 4**

EAST GREENLAND, DENMARK STRAIT and IRMINGER SEA

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CODC Reference: 10-67-001

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DEPARTMENT OF ENERGY, MINES AND RESOURCES

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615 Booth St., Ottawa, Canada

Programmed by the Canadian Committee on Oceanography

DEPARTMENT OF ENERGY, MINES AND RESOURCES

MARINE SCIENCES BRANCH

EAST GREENLAND, DENMARK STRAIT and IRMINGER SEA

| | |
|---------------------------|---|
| Ship: | CSS "Hudson" |
| Local cruise designation: | BIO 0267 |
| CODC cruise reference no: | 10-67-001 |
| Cruise period: | January 16 - April 5, 1967 |
| Scientist-in-Charge: | C.R. Mann |
| Observers: | J.R.N. Lazier C.K. Ross A.B. Grant B.D. Carson |

ATLANTIC OCEANOGRAPHIC LABORATORY

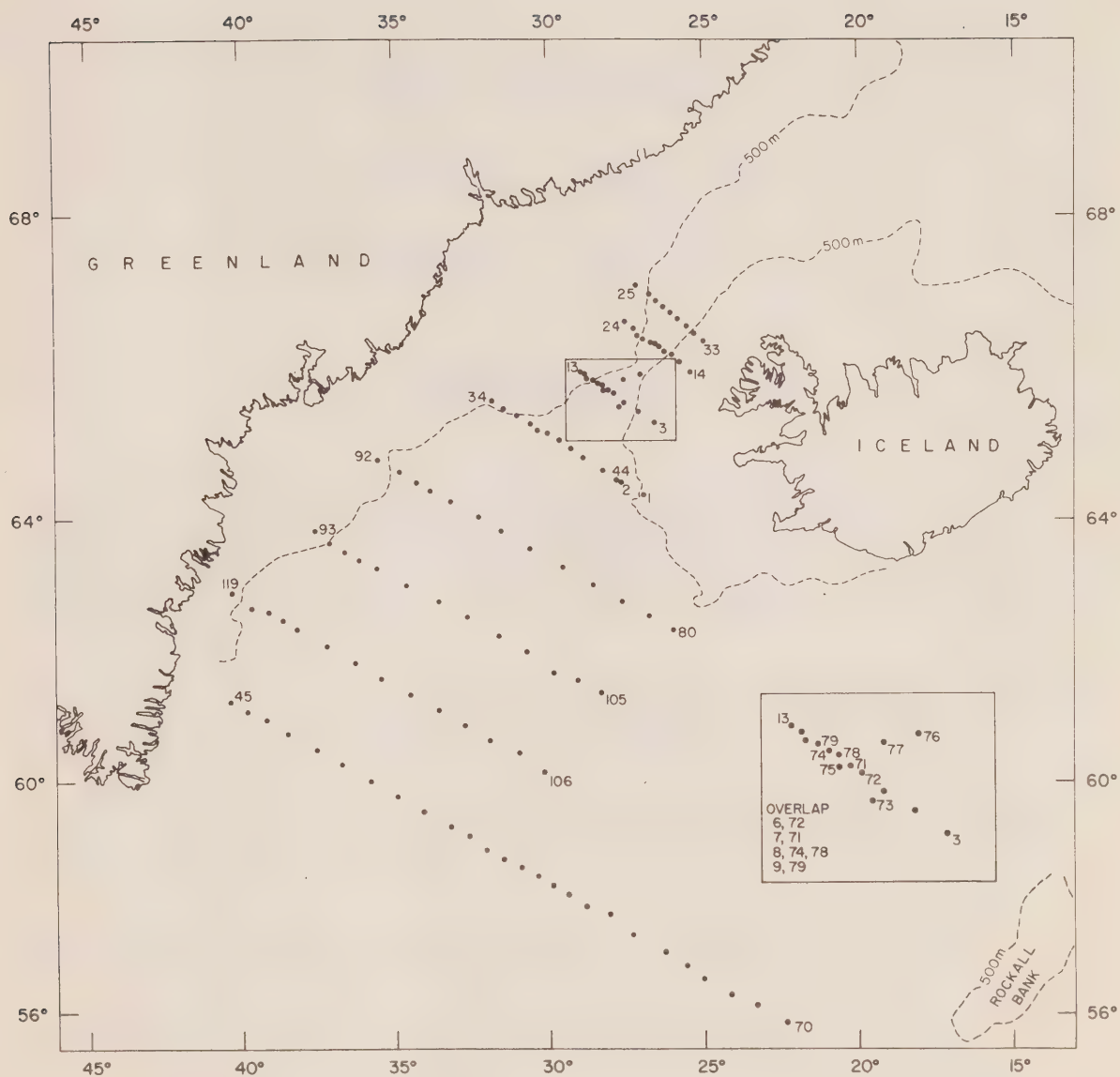
BEDFORD INSTITUTE, Dartmouth, N.S.

SECTION I

Description of data collection procedures



PROTECT-CLEANER AND INSPECTION SERVICE
By _____
Officer _____



INTRODUCTION

The object of this cruise was to collect oceanographic data for the further studies of ocean circulation in the areas of East Greenland, Denmark Strait, and Irminger Sea.

EXTRACT OF CRUISE LOG

Depart Halifax - 16 January 1967

Return Halifax - 5 April 1967

OBSERVATIONS TAKEN

1. 119 oceanographic stations at which temperature, salinity, dissolved oxygen, and silicate content were measured. Sea water samples were taken for phosphate analysis at stations along three lines. One across the northern part of Denmark Strait, one across the southern part, and one running from the east coast of Greenland across deep water to the Reykjanes Ridge.
2. 40 vertical profiles of temperature made with a bathysonde at selected stations throughout the cruise. The bathysonde was positioned close to the bottom using a pinger suspended below it.
3. 27 sets of Bergen-type current meter observations at selected stations in the overflow. The current meter was lowered on the oceanographic cast or below the bathysonde.
4. 15 vertical profiles of temperature with expendable B.T.'s. Mainly across the shallowest part of the Denmark Strait.
5. 10 observations of deep currents east and west of the southern part of the Reykjanes Ridge using neutrally buoyant floats.
6. 34 days of continuous recordings of current velocity and direction and temperature from meters moored with buoys at two locations in the southern part of the Denmark Strait.
7. 4,822 miles of echo soundings using an Alpine recorder with an EDO transmitter/receiver and transducer.

The above observations were made as a collaborative venture by scientists from the Bedford Institute, the Woods Hole Oceanographic Institution, and the National Institute of Oceanography (UK). The station and bathysonde observations were undertaken by BI, the moored current meter observations and salinity determinations by WHOI and the Bergen current meter observations by NIO.

OBSERVATIONAL PROCEDURES

Eight lines of stations were run across the Denmark Strait. One south and two north of the sill. A line of expendable bathythermographs was run across the Strait at the nominal position of the sill. Current meters and temperature recorders were employed along a single line across the Strait to the south of the sill and three lines were worked running from the east Greenland coast to the Reykjanes Ridge.

Salinities were measured on a Sleicher and Bradshaw salinometer. Duplicate samples were run for some stations on an Auto-Lab machine which consistently gave salinities 0.008 higher.

Sub-surface temperatures were measured with Richter and Wiese or Yoshino reversing thermometers. Bathysonde lowerings showed considerable structure in the overflow as it passed through the Denmark Strait and that the structure could change considerably within a period of a day.

Dissolved oxygen concentrations were determined by the modified Winkler Method (Strickland, et al., 1960).

Salinities were determined on board by scientists from Woods Hole Oceanographic Institution, using a Sleicher and Bradshaw salinometer. They are considered accurate to $\pm 0.003\%$.

PERSONNELAt sea:

| | |
|-----------------------------|-------------------------------------|
| C.R. Mann, Senior Scientist | |
| J.R.N. Lazier | |
| C.K. Ross | |
| A.B. Grant | |
| B.D. Carson | |
| L.V. Worthington, WHOI | |
| G. Metcalf, WHOI | |
| J.C. Swallow, NIO | |
| Wm. L. Ford, Director, AOL | Jan. 16 - Feb. 7 |
| R. Heinmiller, WHOI | Jan. 16 - Jan. 27; Mar. 1 - Mar. 15 |
| G.G. Day, WHOI | Jan. 16 - Jan. 27 |
| T.R. Foote | Jan. 16 - Mar. 1 |
| E.A. Lewis | " " |
| R.F. Reiniger | " " |
| J.P. Budlong | " " |
| W. Young | " " |
| S.S. Dunbrack | " " |
| S.J.N. Winter | " " |
| D.J. Beazley | Jan. 16 - Mar. 15 |
| R. Wright, WHOI | " " |
| G.H. Volkmann, WHOI | Feb. 7 - Mar. 1 |
| R.S. Hiltz | Mar. 1 - Apr. 5 |
| F.K. Keyte | " " |
| R.C. Amero | " " |
| G.T. Needler | " " |
| G.F. Connolly | " " |
| A.R. Parsons | " " |
| S.F.W. Spencer | Mar. 15 - Apr. 5 |
| J.R. Barrett, WHOI | " " |

Data Analyses

| | |
|-------------------------|---------------|
| Compilation of data: | R.F. Reiniger |
| | C.K. Ross |
| | A.B. Grant |
| Chemical determinations | W. Young |
| | F.K. Keyte |
| | R.S. Hiltz |

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "**estimate of precision**" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

[illegible]

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,
 ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (\bar{V}_{i_1} - V_{i_2})$
 γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the **combined measurement and interpolation error estimate**. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the **interpolation error estimate** is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

| | | | | | |
|--------------|-----------|---------------|--------------|--------------|----------|
| (1) C-REF-NO | (6) YR | (11) DEPTH | (16) WAVES 1 | (21) AIR T | (26) VIS |
| (2) CONS. NO | (7) MONTH | (12) MXSAMPD | (17) WAVES 2 | (22) WET B | (27) STN |
| (3) LAT | (8) DAY | (13) NO. DPTH | (18) WND-DIR | (23) WW-CODE | |
| (4) LON | (9) HR | (14) W-COLOR | (19) WND-FCE | (24) CLD-TPE | |
| (5) MARSD SQ | (10) C/I | (15) W-TRNSP | (20) BARO | (25) CLD-AMT | (28) HW |

- (1) CRUISE REFERENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.
- (2) CONSECUTIVE NUMBER: Indicates the chronological order in which the stations were occupied.
- (3) LATITUDE: Indicate the position of the platform at the time of observation.
- (4) LONGITUDE:
- (5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).
- (6) YEAR:
- (7) MONTH:
- (8) DAY:
- (9) HOUR: The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.
- (10) COUNTRY/INSTITUTE: The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.
- (11) DEPTH: The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".
- (12) MAXIMUM SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).
 00 m - 50 m = 00
 51 m - 150 m = 01
 151 m - 250 m = 02
 etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_w d_w P_w H_w$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

| | | | | | |
|-----------|------------|----------|-------------|-------------|--------------|
| (1) GMT | (2) DEPTH | (3) TEMP | (4) SAL | (5) OXYGEN | (6) SGMT |
| (7) SOUND | (8) PO_4 | (9) -P- | (10) NO_2 | (11) NO_3 | (12) SiO_3 |
| | | | | (13) pH. | |

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01°C . Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 \text{ C1\%}$, reported in:
 a. 1/100 parts per 1000, or
 b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

| | |
|-----------------------|---|
| (8) PO ₄ | Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre. |
| (9) -P- | Total Phosphorus reported to hundredths of microgram-atoms per litre. |
| (10) NO ₂ | Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included — |
| (11) NO ₃ | Nitrate-Nitrogen reported to tenths of microgram-atoms per litre. |
| (12) SiO ₂ | Silicate-Silicon reported in whole microgram-atoms per litre. |
| (13) pH | The pH value. |

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

| | | | | | |
|-------------|------------|----------|------------|----------|-----------|
| (1) DEPTH | (2) TEMP | (3) SAL | (4) OXYGEN | (5) SGMT | (6) SOUND |
| (7) DELTA-D | (8) POT-EN | (9) SVA. | | | |

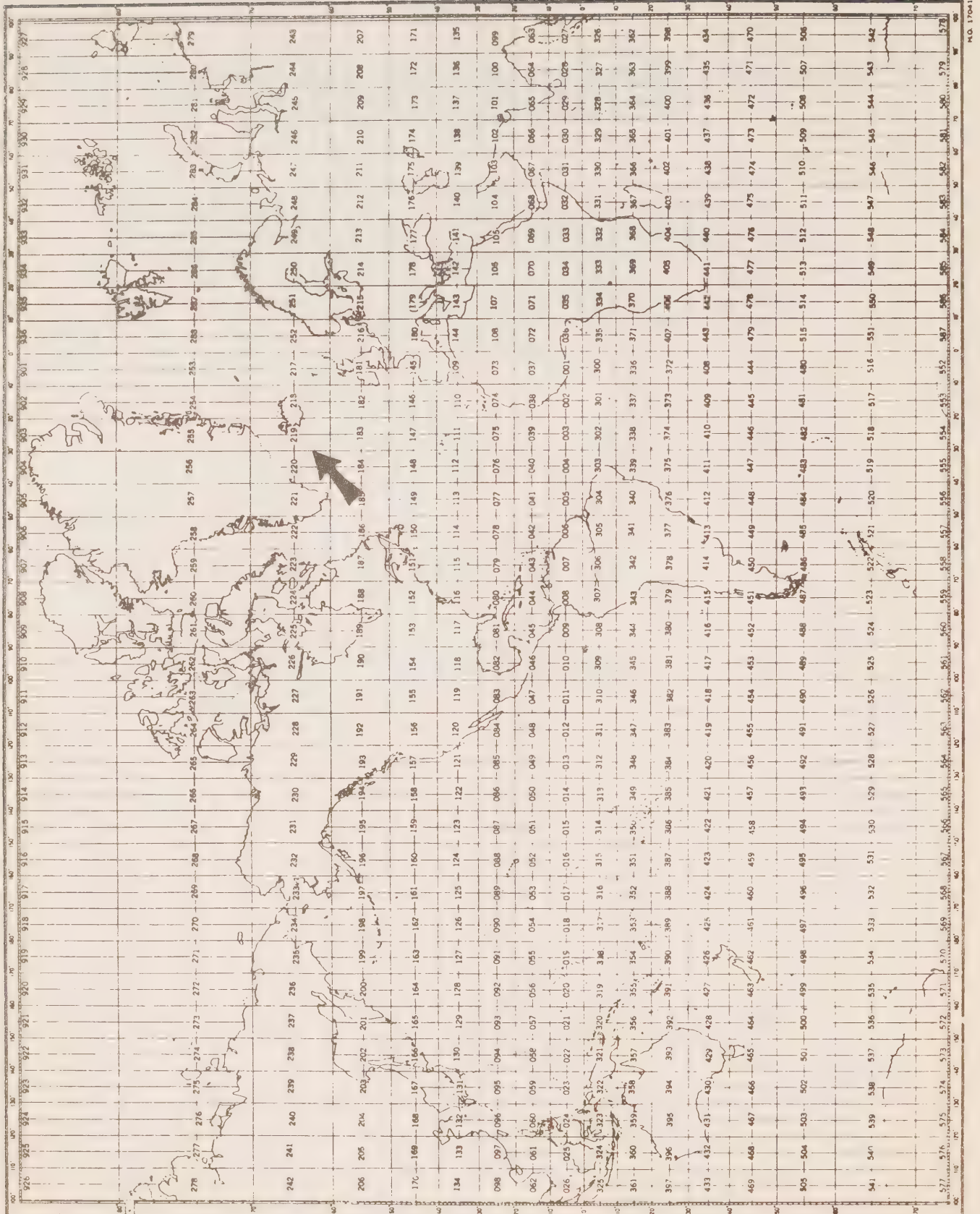
- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the **interpolation error estimate** (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the **combined measurement and interpolation error estimate** (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^p \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^p p \delta dp = \int_0^z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.p}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

‡ (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs

* (Asterisk): this character may occur in the **interpolated** portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one **observed depth interval**. The **third**, and all consequent levels are preceded by the asterisk to indicate that more than **two** machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.



MARSDEN SQUARE CHART

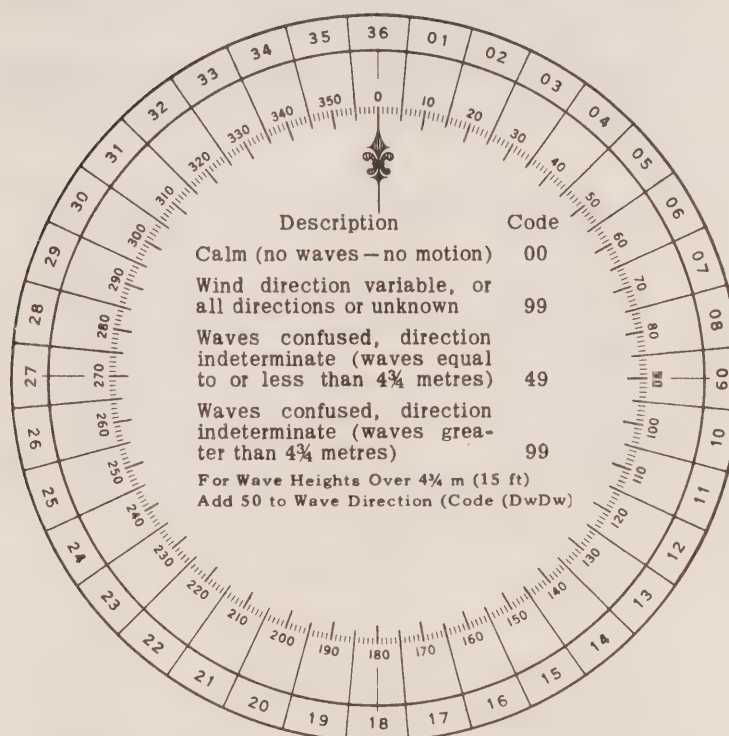
Table 1
CONVERSION
MINUTES TO $\frac{1}{4}_0$ HRS.

| Minutes | Tenths Hrs. |
|---------|--------------|
| 00-03 | 0 |
| 04-08 | 1 |
| 09-15 | 2 |
| 16-20 | 3 |
| 21-27 | 4 |
| 28-32 | 5 |
| 33-39 | 6 |
| 40-44 | 7 |
| 45-51 | 8 |
| 52-56 | 9 |
| 57-59 | 0 (next HR.) |

Table 2
WATER COLOR CODE
Based on Percentage Yellow

| Code: | Description |
|-------|-----------------|
| 00 | Deep Blue |
| 10 | Blue |
| 20 | Greenish Blue |
| 30 | Bluish Green |
| 40 | Green |
| 50 | Light Green |
| 60 | Yellowish Green |
| 70 | Yellow Green |
| 80 | Green Yellow |
| 90 | Greenish Yellow |
| 99 | Yellow |

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

| Code: | Period in Seconds: | Code: | Period in Seconds: |
|-------|--------------------|-------|--------------------------------|
| 2 | 5 sec. or less | 8 | 16 or 17 sec. |
| 3 | 6 or 7 sec. | 9 | 18 or 19 sec. |
| 4 | 8 or 9 sec. | 0 | 20 or 21 sec. |
| 5 | 10 or 11 sec. | 1 | Over 21 sec. |
| 6 | 12 or 13 sec. | X | Calm, or period not determined |
| 7 | 14 or 15 sec. | | |

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

| Code | | | Code |
|------|-----------------------|--------------------------|-------------------------|
| 0 | Less than ¼ m (1 ft) | Add 50 to Dw Dw | 0 5 m (16 ft) |
| 1 | ½ m (1½ ft) | | 1 5½ m (17½ ft) |
| 2 | 1 m (3 ft) | | 2 6 m (19 ft) |
| 3 | 1½ m (5 ft) | | 3 6½ m (21 ft) |
| 4 | 2 m (6½ ft) | | 4 7 m (22½ ft) |
| 5 | 2½ m (8 ft) | | 5 7½ m (24 ft) |
| 6 | 3 m (9½ ft) | | 6 8 m (25½ ft) |
| 7 | 3½ m (11 ft) | | 7 8½ m (27 ft) |
| 8 | 4 m (13 ft) | | 8 9 m (29 ft) |
| 9 | 4½ m (14 ft) | | 9 9½ m (30½ ft) or more |
| x | Height not determined | | |

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

| Code | Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully | Description |
|------|---|-----------------|
| 00 | Sea like a mirror | Calm |
| 01 | Ripples with the appearance of scales are formed, but without foam crests. | Light Air |
| 02 | Small wavelets; crests have a glassy appearance and do not break. | Light Breeze |
| 03 | Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses. | Gentle Breeze |
| 04 | Small waves, becoming longer; fairly frequent white horses. | Moderate breeze |
| 05 | Moderate waves; many white horses are formed (chance of some spray) | Fresh Breeze |
| 06 | Large waves; white foam crests everywhere (probably some spray) | Strong Breeze |
| 07 | Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind. | Near Gale |
| 08 | Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind. | Gale |
| 09 | High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility. | Strong Gale |
| 10 | Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected. | Storm |
| 11 | Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected. | Violent Storm |
| 12 | Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected. | Hurricane |

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

| Code figure ww | | | |
|--------------------------------------|----|---|---|
| No meteors except photometeors | 00 | Cloud development not observed or not observable | characteristic change of the state of sky during the past hour |
| | 01 | Clouds generally dissolving or becoming less developed | |
| | 02 | State of sky on the whole unchanged | |
| | 03 | Clouds generally forming or developing | |
| Haze, dust, sand or smoke | 04 | Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes | |
| | 05 | Haze | |
| | 06 | Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation | |
| | 07 | Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen | |
| | 08 | Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm | |
| | 09 | Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour | |
| | 10 | Mist | |
| | 11 | Patches of More or less continuous | shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea |
| | 12 | | |
| | 13 | Lightning visible, no thunder heard | |
| | 14 | Precipitation within sight, not reaching the ground or the surface of the sea | |
| | 15 | Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station | |
| | 16 | Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station | |
| | 17 | Thunderstorm, but no precepitation at the time of observation | |
| | 18 | Squalls | } at or within sight of the station during the preceding hour or at the time of observation |
| | 19 | Funnel clouds | |

| | | | |
|--------------|----|---|---|
| ww = 20 - 29 | 29 | Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation | } not falling as shower(s) |
| | 20 | Drizzle (not freezing) or snow grains | |
| | 21 | Rain (not freezing) | |
| | 22 | Snow | |
| | 23 | Rain and snow or ice pellets, type (a) | |
| | 24 | Freezing drizzle or freezing rain | |
| | 25 | Shower(s) of rain | |
| | 26 | Shower(s) of snow, or of rain and snow | |
| | 27 | Shower(s) of hail, or of rain and hail | |
| | 28 | Fog or ice fog | |
| | 29 | Thunderstorm (with or without precipitation) | |
| ww = 30 - 39 | 39 | Duststorm, sandstorm, drifting or blowing snow | |
| | 30 | Slight or moderate duststorm or sandstorm | - has decreased during the preceding hour |
| | 31 | | - no appreciable change during the preceding hour |
| | 32 | | - has begun or has increased during the preceding hour |
| | 33 | Severe duststorm or sandstorm | - has decreased during the preceding hour |
| | 34 | | - no appreciable change during the preceding hour |
| | 35 | | - has begun or has increased during the preceding hour |
| | 36 | Slight or moderate blowing snow | } generally low (below eye level) |
| | 37 | Heavy drifting snow | |
| | 38 | Slight or moderate blowing snow | } generally high (above eye level) |
| | 39 | Heavy blowing snow | |
| ww = 40 - 49 | 49 | Fog or ice fog at the time of observation | |
| | 40 | Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer | |
| | 41 | Fog or ice fog in patches | |
| | 42 | Fog or ice fog, sky visible | } has become thinner during the preceding hour |
| | 43 | Fog or ice fog, sky invisible | |
| | 44 | Fog or ice fog, sky visible | } no appreciable change during the preceding hour |
| | 45 | Fog or ice fog, sky invisible | |
| | 46 | Fog or ice fog, sky visible | } has begun or has become thicker during the preceding hour |
| | 47 | Fog or ice fog, sky invisible | |
| | 48 | Fog, depositing rime, sky visible | |
| | 49 | Fog, depositing rime, sky invisible | |

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

- | | | |
|----|--|--|
| 50 | Drizzle, not freezing, intermittent | } slight at time of observation |
| 51 | Drizzle, not freezing, continuous | |
| 52 | Drizzle, not freezing, intermittent | } moderate at time of observation |
| 53 | Drizzle, not freezing, continuous | |
| 54 | Drizzle, not freezing, intermittent | } heavy (dense) at time of observation |
| 55 | Drizzle, not freezing, continuous | |
| 56 | Drizzle, freezing, slight | |
| 57 | Drizzle, freezing, moderate or heavy (dense) | |
| 58 | Drizzle and rain, slight | |
| 59 | Drizzle and rain, moderate or heavy | |

ww = 60 - 69 Rain

- | | | |
|----|---|-----------------------------------|
| 60 | Rain, not freezing, intermittent | } slight at time of observation |
| 61 | Rain, not freezing, continuous | |
| 62 | Rain, not freezing, intermittent | } moderate at time of observation |
| 63 | Rain, not freezing, continuous | |
| 64 | Rain, not freezing, intermittent | } heavy at time of observation |
| 65 | Rain, not freezing, continuous | |
| 66 | Rain, freezing, slight | |
| 67 | Rain, freezing, moderate or heavy | |
| 68 | Rain or drizzle and snow, slight | |
| 69 | Rain or drizzle and snow, moderate or heavy | |

70 - 79 Solid precipitation not in showers

ww

- | | | |
|----|---|-----------------------------------|
| 70 | Intermittent fall of snow flakes | } slight at time of observation |
| 71 | Continuous fall of snow flakes | |
| 72 | Intermittent fall of snow flakes | } moderate at time of observation |
| 73 | Continuous fall of snow flakes | |
| 74 | Intermittent fall of snow flakes | } heavy at time of observation |
| 75 | Continuous fall of snow flakes | |
| 76 | Ice prisms (with or without fog) | |
| 77 | Snow grains (with or without fog) | |
| 78 | Isolated starlike snow crystals (with or without fog) | |
| 79 | Ice pellets, type (a) | |

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

- | | | |
|----|--|---|
| 80 | Rain shower(s), slight | |
| 81 | Rain shower(s), moderate or heavy | |
| 82 | Rain shower(s), violent | |
| 83 | Shower(s) of rain and snow mixed, slight | |
| 84 | Shower(s) of rain and snow mixed, moderate or heavy | |
| 85 | Snow shower(s), slight | |
| 86 | Snow shower(s), moderate or heavy | |
| 87 | Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed | } - slight |
| 88 | | |
| 89 | Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder | } - slight |
| 90 | | |
| 91 | Slight rain at time of observation | } - moderate or heavy |
| 92 | Moderate or heavy rain at time of observation | |
| 93 | Slight snow, or rain and snow mixed or hail at time of observation | |
| 94 | Moderate or heavy snow, or rain and snow mixed or hail at time of observation | |
| 95 | Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation | } thunderstorm during the preceding hour but not at time of observation |
| 96 | Thunderstorm, slight or moderate, with hail at time of observation | |
| 97 | Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation | |
| 98 | Thunderstorm, combined with duststorm or sandstorm at time of observation | |
| 99 | Thunderstorm, heavy, with hail at time of observation | } thunderstorm at time of observation |
| | | |

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

| Code | Cloud Type | Code | Cloud Type |
|------|--|------|----------------------------|
| 0 | Cirrus Ci | 5 | Nimbostratus Ns |
| 1 | Cirrocumulus Cc | 6 | Stratocumulus Sc |
| 2 | Cirrostratus Cs | 7 | Stratus St |
| 3 | Alto cumulus Ac | 8 | Cumulus Cu |
| 4 | Altostratus As | 9 | Cumulonimbus Cb |
| X | Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena | | |

Table 9. CLOUD AMOUNT CODE

| Code | Cloud Cover | Code | Cloud Cover |
|------|---------------------------------|------|---|
| 0 | 0 | 6 | 6 oktas |
| 1 | 1 okta or less, but not zero | 7 | 7 oktas or more, but not 8 oktas |
| 2 | 2 oktas | 8 | 8 oktas |
| 3 | 3 oktas | 9 | Sky obscured, or cloud amount cannot be estimated |
| 4 | 4 oktas | | |
| 5 | 5 oktas | | |

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

| Code | Estimate of hor. Visibility |
|------|--|
| 0 | Less than 50 metres (less than 55 yards) |
| 1 | 50-200 metres (approx. 55-220 yards) |
| 2 | 200-500 metres (approx. 220-550 yards) |
| 3 | 500-1,000 metres (approx. 550 yards- $\frac{5}{8}$ n.m.) |
| 4 | 1-2 km (approx. $\frac{5}{8}$ -1 n.m.) |
| 5 | 2-4 km (approx. 1-2 n.m.) |
| 6 | 4-10 km (approx. 2-6 n.m.) |
| 7 | 10-20 km (approx. 6-12 n.m.) |
| 8 | 20-50 km (approx. 12-30 n.m.) |
| 9 | 50 km or more (30 n.m. or more) |

Note: n.m. = nautical mile

TABLE 11. INSTITUTE CODE

| Code | Institute |
|------|---|
| 01 | Marine Ecology Laboratory, Bedford Institute |
| 02 | Pacific Oceanographic Group |
| 03 | Biological Station, St. Andrews, N.B. |
| 04 | Arctic Biological Station, Ste. Anne de Bellevue, P.Q. |
| 05 | Biological Station, St. John's Nfld. |
| 06 | Station de Biologie Marine, Grande Riviere, P.Q. |
| 07 | Marine Sciences Branch, Central Region |
| 08 | Defence Research Establishment, Atlantic |
| 09 | Defence Research Establishment, Pacific |
| 10 | Atlantic Oceanographic Laboratory, Bedford Institute |
| 11 | Polar Continental Shelf Project |
| 12 | Great Lakes Institute |
| 13 | Institute of Oceanography, University of British Columbia |
| 14 | Institute of Oceanography, Dalhousie University |
| 15 | Marine Sciences Branch, Pacific Region |
| 16 | Department of Transport |
| 17 | Marine Sciences Centre, McGill University |
| 18 | Canadian Forces Maritime Command, East Coast |
| 19 | Canadian Forces Maritime Command, West Coast |
| 20 | Ontario Water Resources Commission |
| 21 | Dept. of National Health and Welfare |
| 22 | Inland Waters Branch, Dept. of Energy, Mines and Resources. |

SECTION III

Serial oceanographic data

GENERAL INFORMATION

| | |
|---|-----------------------------------|
| <u>Institute:</u> | Atlantic Oceanographic Laboratory |
| <u>Observation platform:</u> | CSS "HUDSON" |
| <u>Vessel's cruising speed:</u> | 14 knots |
| <u>Total number of stations occupied:</u> | 119 |
| <u>Barometer readings:</u> | Aneroid Barometer (corrected) |
| <u>Air temperature:</u> | Sling Psychrometer |
| <u>Wet bulb temperature:</u> | Sling Psychrometer |
| <u>Surface sea water temperature:</u> | Reversing Thermometer |

The following Standard Deviations were used to express both measurement and interpolation error estimates.

| | |
|-------------|---------|
| Temperature | - 0.02 |
| Salinity | - 0.003 |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 463 | WAVES 1 0849 | AIR T 06.5 | VIS 8 |
| CONS. NO 001 | MONTH 1 | MXSAMPD 04 | WAVES 2 08XX | WET B 04.3 | STN |
| LAT 64-196N | DAY 24 | NO.DPTH 10 | WND-DIR 080 | WW-CODE 02 | |
| LON 26-583W | HR 08.0 | W-COLOR | WND-SPD 23 | CLD-TPE 7 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1005.3 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 080 | 0001 | 0703 | 35184 | 660 | 2758 | 14794 | | | | | 063 | |
| 080 | 0024 | 0698 | 35183 | 659 | 2759 | 14796 | | | | | 064 | |
| 080 | 0072 | 0699 | 35181 | 659 | 2758 | 14804 | | | | | 059 | |
| 080 | 0119 | 0700 | 35179 | 658 | 2758 | 14812 | | | | | 057 | |
| 080 | 0166 | 0700 | 35179 | 656 | 2758 | 14820 | | | | | 060 | |
| 080 | 0216 | 0698 | 35180 | 655 | 2758 | 14828 | | | | | 059 | |
| 080 | 0266 | 0695 | 35179 | 655 | 2759 | 14835 | | | | | 060 | |
| 080 | 0317 | 0694 | 35180 | 653 | 2759 | 14843 | | | | | 058 | |
| 080 | 0368 | 0688 | 35182 | 651 | 2760 | 14849 | | | | | 062 | |
| 080 | 0416 | 0676 | 35180 | 646 | 2761 | 14852 | | | | | 065 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH .845 | WAVES 1 0523 | AIR T 05.0 | VIS 8 |
| CONS. NO 002 | MONTH 1 | MXSAMPD 08 | WAVES 2 5840 | WET B 03.2 | STN |
| LAT 64-318N | DAY 24 | NO.DPTH 18 | WND-DIR 050 | WW-CODE 01 | |
| LON 27-431W | HR 11.3 | W-COLOR | WND-SPD 23 | CLD-TPE 5 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1006.4 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 113 | 0006 | 0718 | 35182 | 654 | 2756 | 14801 | | | | 060 | |
| 113 | 0026 | 0719 | 35180 | 654 | 2755 | 14805 | | | | 063 | |
| 113 | 0075 | 0719 | 35183 | 656 | 2756 | 14813 | | | | 068 | |
| 113 | 0125 | 0718 | 35184 | 647 | 2756 | 14821 | | | | 063 | |
| 113 | 0173 | 0713 | 35175 | 645 | 2756 | 14826 | | | | 065 | |
| 113 | 0222 | 0706 | 35172 | 637 | 2757 | 14832 | | | | 068 | |
| 113 | 0271 | 0697 | 35164 | 656 | 2757 | 14836 | | | | 063 | |
| 113 | 0321 | 0695 | 35166 | 651 | 2758 | 14843 | | | | 066 | |
| 113 | 0421 | 0694 | 35164 | 652 | 2758 | 14860 | | | | 065 | |
| 113 | 0471 | 0694 | 35161 | 649 | 2757 | 14868 | | | | 067 | |
| 113 | 0521 | 0677 | 35148 | 627 | 2759 | 14869 | | | | 074 | |
| 113 | 0571 | 0655 | 35138 | 596 | 2761 | 14869 | | | | 083 | |
| 113 | 0622 | 0634 | 35126 | 541 | 2763 | 14869 | | | | 087 | |
| 113 | 0671 | 0598 | 35093 | 518 | 2765 | 14862 | | | | 104 | |
| 113 | 0720 | 0583 | 35090 | 577 | 2767 | 14864 | | | | 105 | |
| 113 | 0768 | 0560 | 35078 | 582 | 2769 | 14862 | | | | 100 | |
| 113 | 0792 | 0546 | 35068 | 581 | 2770 | 14861 | | | | 100 | |
| 113 | 0814 | 0522 | 35049 | 587 | 2771 | 14854 | | | | 109 | |

C-REF-NO 001 YR 1967 DEPTH 356 WAVES 1 0546 AIR T 04.0 VIS 7
 CONS. NO 004 MONTH 1 MXSAMPD 03 WAVES 2 05XX WET B 02.5 STN
 LAT 65-288N DAY 29 NO.DPTH 12 WND-DIR 050 WW-CODE 03
 LON 27-066W HR 00.3 W-COLOR WND-SPD 19 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1003.9 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 003 | 0004 | 0671 | 35177 | 672 | 2762 | 14782 | | 086 | | 126 | 064 | |
| 003 | 0053 | 0672 | 35179 | 668 | 2762 | 14791 | | 101 | | 125 | 065 | |
| 003 | 0101 | 0673 | 35182 | 664 | 2762 | 14799 | | 097 | | 121 | 065 | |
| 003 | 0149 | 0672 | 35178 | 663 | 2762 | 14806 | | 100 | | 127 | 064 | |
| 003 | 0172 | 0669 | 35173 | 663 | 2762 | 14809 | | 100 | | 126 | 065 | |
| 003 | 0196 | 0668 | 35178 | 663 | 2762 | 14812 | | 101 | | 128 | 064 | |
| 003 | 0220 | 0665 | 35176 | 665 | 2763 | 14815 | | 103 | | 130 | 065 | |
| 003 | 0243 | 0663 | 35179 | 665 | 2763 | 14818 | | 103 | | 127 | 066 | |
| 003 | 0267 | 0661 | 35177 | 665 | 2763 | 14821 | | 100 | | 126 | 064 | |
| 003 | 0292 | 0650 | 35176 | 669 | 2765 | 14821 | | 105 | | 126 | 061 | |
| 003 | 0317 | 0643 | 35173 | 669 | 2765 | 14822 | | 110 | | | 063 | |
| 003 | 0342 | 0643 | 35172 | 669 | 2765 | 14827 | | 096 | | 129 | 063 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 657 | WAVES 1 0436 | AIR T 05.1 | VIS 8 |
| CONS. NO 005 | MONTH 1 | MXSAMPD 06 | WAVES 2 04XX | WET B 03.3 | STN |
| LAT 65-372N | DAY 29 | NO.DPTH 16 | WND-DIR 040 | WW-CODE 02 | |
| LON 27-350W | HR 02.7 | W-COLOR | WND-SPD 19 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1004.1 | CLD-AMT B | FW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 027 | 0001 | 0667 | 35158 | 669 | 2761 | 14780 | | 100 | | 132 | 062 | |
| 027 | 0031 | 0665 | 35150 | 663 | 2761 | 14784 | | 102 | | 132 | 062 | |
| 027 | 0088 | 0666 | 35155 | 665 | 2761 | 14794 | | 098 | | 125 | 061 | |
| 027 | 0140 | 0667 | 35155 | | 2761 | 14803 | | 100 | | 128 | 064 | |
| 027 | 0243 | 0667 | 35151 | 659 | 2760 | 14819 | | 097 | | 130 | 061 | |
| 027 | 0344 | 0668 | 35157 | 659 | 2761 | 14837 | | 092 | | 130 | 062 | |
| 027 | 0394 | 0664 | 35158 | 644 | 2761 | 14843 | | 085 | | 131 | 067 | |
| 027 | 0441 | 0649 | 35144 | 623 | 2762 | 14845 | | 085 | | 136 | 075 | |
| 027 | 0466 | 0640 | 35138 | 615 | 2763 | 14845 | | 092 | | 136 | 078 | |
| 027 | 0490 | 0632 | 35136 | 619 | 2764 | 14846 | | 094 | | 125 | 077 | |
| 027 | 0513 | 0634 | 35144 | 629 | 2764 | 14851 | | 100 | | 133 | 074 | |
| 027 | 0537 | 0631 | 35152 | 642 | 2765 | 14854 | | 095 | | 131 | 069 | |
| 027 | 0562 | 0629 | 35150 | 642 | 2765 | 14857 | | 092 | | 134 | 069 | |
| 027 | 0586 | 0628 | 35142 | 638 | 2765 | 14860 | | 094 | | 134 | 071 | |
| 027 | 0611 | 0628 | 35144 | 639 | 2765 | 14865 | | 091 | | 131 | 069 | |
| 027 | 0636 | 0622 | 35143 | 629 | 2766 | 14866 | | 093 | | 135 | 074 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 809 | WAVES 1 0436 | AIR T 04.5 | VIS 8 |
| CONS. NO 006 | MONTH 1 | MXSAMPD 07 | WAVES 2 04XX | WET B 23.4 | STN |
| LAT 65-433N | DAY 29 | NO.DPTH 18 | WND-DIR 040 | WW-CODE 02 | |
| LON 27-534W | HR 06.3 | W-COLOR | WND-SPD 16 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1003.8 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 063 | 0013 | 0660 | 35159 | 670 | 2762 | 14779 | | 089 | | 128 | 066 | |
| 063 | 0042 | 0660 | 35158 | 660 | 2762 | 14784 | | 089 | | 129 | 065 | |
| 063 | 0092 | 0660 | 35159 | 662 | 2762 | 14792 | | 091 | | 130 | 065 | |
| 063 | 0142 | 0661 | 35158 | 661 | 2762 | 14801 | | 092 | | 126 | 064 | |
| 063 | 0193 | 0662 | | 661 | | | | 088 | | 118 | 064 | |
| 063 | 0242 | 0662 | 35164 | 661 | 2762 | 14817 | | 095 | | 127 | 064 | |
| 063 | 0340 | 0663 | 35158 | 659 | 2761 | 14834 | | 089 | | 108 | 065 | |
| 063 | 0438 | 0659 | 35158 | 649 | 2762 | 14848 | | 094 | | 123 | 067 | |
| 063 | 0488 | 0651 | 35149 | 631 | 2762 | 14853 | | 084 | | 112 | 075 | |
| 063 | 0537 | 0637 | 35138 | 617 | 2763 | 14856 | | 094 | | 122 | 077 | |
| 063 | 0563 | 0629 | 35141 | 621 | 2765 | 14857 | | 091 | | 115 | 078 | |
| 063 | 0588 | 0623 | 35148 | 634 | 2766 | 14859 | | 087 | | 125 | 075 | |
| 063 | 0613 | 0621 | 35148 | 641 | 2766 | 14862 | | 109 | | 122 | 073 | |
| 063 | 0639 | 0620 | 35148 | 640 | 2766 | 14866 | | 103 | | 120 | 074 | |
| 063 | 0666 | 0615 | 35141 | 636 | 2767 | 14868 | | 083 | | 100 | 078 | |
| 063 | 0692 | 0593 | 35112 | 613 | 2767 | 14864 | | 089 | | 112 | 087 | |
| 063 | 0719 | 0558 | 35078 | 588 | 2769 | 14853 | | 104 | | 136 | 100 | |
| 063 | 0746 | 0555 | 35073 | 591 | 2769 | 14857 | | 101 | | 141 | 097 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 793 | WAVES 1 0322 | AIR T 02.2 | VIS 8 |
| CONS. NO 007 | MONTH 1 | MXSAMPD 07 | WAVES 2 5432 | WET B 01.6 | STN |
| LAT 65-463N | DAY 29 | NO.DPTH 18 | WND-DIR 030 | WW-CODE 02 | |
| LON 28-047W | HR 09.3 | W-COLOR | WND-SPD 18 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1005.3 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 093 | 0002 | 0660 | 35160 | 664 | 2762 | 14777 | | 090 | | 119 | 065 | |
| 093 | 0042 | 0661 | 35158 | 664 | 2762 | 14784 | | 089 | | 122 | 065 | |
| 093 | 0093 | 0662 | 35160 | 672 | 2762 | 14793 | | 088 | | 121 | 072 | |
| 093 | 0145 | 0662 | 35161 | | 2762 | 14802 | | 091 | | 122 | 069 | |
| 093 | 0196 | 0663 | 35164 | 664 | 2762 | 14810 | | | | | 068 | |
| 093 | 0247 | 0664 | 35162 | 661 | 2762 | 14819 | | 090 | | 126 | 070 | |
| 093 | 0348 | 0664 | 35159 | 662 | 2761 | 14836 | | 091 | | 122 | 067 | |
| 093 | 0447 | 0663 | 35158 | 660 | 2761 | 14852 | | 089 | | 123 | 067 | |
| 093 | 0495 | 0652 | 35156 | 638 | 2763 | 14855 | | 090 | | 125 | 077 | |
| 093 | 0542 | 0623 | 35133 | 621 | 2765 | 14851 | | 100 | | 125 | 082 | |
| 093 | 0566 | 0618 | 35127 | 631 | 2765 | 14853 | | 095 | | 133 | 087 | |
| 093 | 0590 | 0616 | 35124 | 619 | 2765 | 14856 | | 091 | | 133 | 088 | |
| 093 | 0613 | 0613 | 35123 | 620 | 2765 | 14859 | | 093 | | 127 | 086 | |
| 093 | 0636 | 0587 | 35103 | 602 | 2767 | 14852 | | 097 | | 134 | 096 | |
| 093 | 0660 | 0536 | 35079 | 655 | 2772 | 14835 | | 083 | | 134 | 079 | |
| 093 | 0683 | 0404 | 35065 | 669 | 2786 | 14784 | | 082 | | 135 | 082 | |
| 093 | 0706 | 0091 | 34959 | 695 | 2804 | 14651 | | 092 | | 132 | 092 | |
| 093 | 0730 | 0074 | 34950 | 692 | 2804 | 14647 | | 088 | | 134 | 094 | |

C-REF-NO 001 YR 1967 DEPTH 715 WAVES 1 0323 AIR T 02.8 VIS 6
 CONS. NO 008 MONTH 1 MXSAMPD 07 WAVES 2 0439 WET B 02.6 STN
 LAT 65-496N DAY 29 NO.DPTH 18 WND-DIR 030 WW-CODE 50
 LON 28-159W HR 11.7 W-COLOR WND-SPD 13 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1005.5 CLD-AMT 8 HW

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 117 | 0007 | 0654 | 35156 | 672 | 2763 | 14776 | | 076 | | | 071 | |
| 117 | 0031 | 0655 | 35160 | 661 | 2763 | 14780 | | 078 | | 143 | 066 | |
| 117 | 0080 | 0656 | 35158 | 664 | 2762 | 14788 | | 076 | | 143 | 066 | |
| 117 | 0129 | 0656 | 35156 | 660 | 2762 | 14796 | | 079 | | 136 | 069 | |
| 117 | 0179 | 0657 | 35157 | 660 | 2762 | 14805 | | 080 | | 132 | 073 | |
| 117 | 0276 | 0657 | 35155 | 658 | 2762 | 14821 | | 082 | | 139 | 072 | |
| 117 | 0325 | 0657 | 35153 | 656 | 2762 | 14829 | | 075 | | 141 | 073 | |
| 117 | 0373 | 0653 | 35147 | 649 | 2762 | 14835 | | 078 | | 150 | 069 | |
| 117 | 0421 | 0636 | 35140 | 627 | 2764 | 14836 | | 088 | | 146 | 079 | |
| 117 | 0469 | 0626 | 35140 | 635 | 2765 | 14840 | | 075 | | 140 | 071 | |
| 117 | 0492 | 0603 | 35111 | 639 | 2766 | 14834 | | 080 | | 132 | 074 | |
| 117 | 0515 | 0561 | 35061 | 643 | 2767 | 14821 | | 081 | | 134 | 076 | |
| 117 | 0539 | 0522 | 35040 | 657 | 2770 | 14809 | | 080 | | 132 | 072 | |
| 117 | 0563 | 0520 | 35067 | 646 | 2773 | 14812 | | 075 | | 132 | 077 | |
| 117 | 0587 | 0443 | 35070 | 647 | 2782 | 14784 | | 080 | | 136 | 080 | |
| 117 | 0611 | 0322 | 35018 | 667 | 2790 | 14737 | | 082 | | 131 | 086 | |
| 117 | 0635 | 0143 | 34964 | 690 | 2801 | 14662 | | 091 | | | 085 | |
| 117 | 0659 | 0133 | 34955 | 696 | 2801 | 14661 | | 090 | | 129 | 084 | |

C-REF-NO 001 YR 1967 DEPTH 575 WAVES 1 0435 AIR T 02.3 VIS 5
 CONS. NO 009 MONTH 1 MXSAMPD 06 WAVES 2 0546 WET B 01.8 STN
 LAT 65-505N DAY 29 NO.DPTH 16 WND-DIR 040 WW-CODE 50
 LON 28-251W HR 14.1 W-COLOR WND-SPD 14 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1005.8 CLD-AMT B HW

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 141 | 0003 | 0652 | 35155 | 677 | 2763 | 14774 | | 092 | | 132 | 071 | |
| 141 | 0037 | 0652 | 35154 | 664 | 2763 | 14780 | | 093 | | 133 | 071 | |
| 141 | 0067 | 0653 | 35152 | 663 | 2762 | 14785 | | 093 | | 137 | 071 | |
| 141 | 0117 | 0653 | 35154 | 661 | 2763 | 14793 | | 093 | | 133 | 072 | |
| 141 | 0166 | 0653 | 35153 | 659 | 2762 | 14801 | | 090 | | 134 | 072 | |
| 141 | 0266 | 0541 | 35009 | 663 | 2765 | 14771 | | 089 | | 131 | 070 | |
| 141 | 0317 | 0477 | 34932 | 681 | 2767 | 14752 | | 084 | | 124 | 075 | |
| 141 | 0368 | 0405 | 34849 | 705 | 2768 | 14729 | | 081 | | 118 | 075 | |
| 141 | 0393 | 0398 | 34842 | 706 | 2768 | 14730 | | 082 | | 118 | 077 | |
| 141 | 0418 | 0388 | 34838 | 706 | 2769 | 14730 | | 082 | | 110 | 077 | |
| 141 | 0443 | 0367 | 34807 | 704 | 2769 | 14725 | | 083 | | 111 | 074 | |
| 141 | 0468 | 0420 | 35041 | 658 | 2782 | 14755 | | 093 | | 124 | 083 | |
| 141 | 0493 | 0339 | 35021 | 672 | 2789 | 14724 | | 087 | | 130 | 082 | |
| 141 | 0516 | 0186 | 34977 | 689 | 2799 | 14661 | | 090 | | 123 | 077 | |
| 141 | 0540 | 0140 | 34958 | 699 | 2800 | 14645 | | 086 | | 115 | 075 | |
| 141 | 0564 | 0137 | 34954 | 699 | 2800 | 14647 | | 084 | | 113 | 076 | |

C-REF-NO 001 YR 1967 DEPTH 505 WAVES 1 0334 AIR T 01.6 VIS 6
 CONS. NO 010 MONTH 1 MXSAMPD 05 WAVES 2 0546 WET B 01.0 STN
 LAT 65-526N DAY 29 NO.DPTH 16 WND-DIR 030 WW-CODE 10
 LON 28-373W HR 16.0 W-COLOR WND-SPD 12 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1006.1 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 161 | 0002 | 0653 | 35158 | 669 | 2763 | 14774 | | 088 | | 122 | 071 | |
| 161 | 0027 | 0653 | 35155 | 661 | 2763 | 14779 | | 085 | | 122 | 071 | |
| 161 | 0047 | 0654 | 35156 | 664 | 2763 | 14782 | | 091 | | 117 | 070 | |
| 161 | 0087 | 0655 | 35156 | 663 | 2762 | 14789 | | 099 | | 120 | 072 | |
| 161 | 0136 | 0655 | 35156 | 663 | 2762 | 14797 | | 095 | | 118 | 072 | |
| 161 | 0185 | 0656 | 35158 | 659 | 2762 | 14806 | | 096 | | 119 | 075 | |
| 161 | 0234 | 0648 | 35150 | 655 | 2763 | 14810 | | | | | 070 | |
| 161 | 0284 | 0590 | 35070 | 653 | 2764 | 14794 | | 091 | | 115 | 065 | |
| 161 | 0308 | 0560 | 35040 | 656 | 2766 | 14786 | | 092 | | 118 | 065 | |
| 161 | 0334 | 0567 | 35071 | 652 | 2767 | 14793 | | | | 114 | 065 | |
| 161 | 0358 | 0519 | 35028 | 661 | 2770 | 14777 | | | | 120 | 067 | |
| 161 | 0383 | 0406 | 35037 | 665 | 2783 | 14735 | | 100 | | 114 | 084 | |
| 161 | 0408 | 0232 | 34987 | 690 | 2796 | 14664 | | 093 | | 121 | 084 | |
| 161 | 0434 | 0121 | 34943 | 704 | 2801 | 14619 | | 091 | | 123 | 083 | |
| 161 | 0459 | 0090 | 34932 | 707 | 2802 | 14609 | | 092 | | 110 | 081 | |
| 161 | 0484 | 0093 | 34933 | 706 | 2802 | 14614 | | 086 | | 113 | 081 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 460 | WAVES 1 0222 | AIR T 01.3 | VIS 6 |
| CONS. NO 011 | MONTH 1 | MXSAMPD 04 | WAVES 2 0545 | WET B 01.6 | STN |
| LAT 65-538N | DAY 29 | NO.DPTH 14 | WND-DIR 020 | WW-CODE 10 | |
| LON 28-487W | HR 18.6 | W-COLOR | WND-SPD 15 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1006.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 187 | 0004 | 0653 | 35153 | 670 | 2762 | 14775 | | 095 | | 116 | 068 | |
| 187 | 0052 | 0655 | 35152 | 662 | 2762 | 14783 | | 093 | | 128 | 066 | |
| 187 | 0102 | 0655 | 35154 | 662 | 2762 | 14792 | | 095 | | 116 | 067 | |
| 187 | 0153 | 0656 | 35153 | 661 | 2762 | 14800 | | 092 | | 113 | 065 | |
| 187 | 0203 | 0649 | 35147 | 646 | 2763 | 14806 | | 096 | | 121 | 072 | |
| 187 | 0253 | 0633 | 35141 | 630 | 2764 | 14807 | | 095 | | 128 | 077 | |
| 187 | 0278 | 0630 | 35145 | 636 | 2765 | 14810 | | 101 | | 132 | 076 | |
| 187 | 0302 | 0630 | 35146 | 637 | 2765 | 14814 | | 092 | | 134 | 074 | |
| 187 | 0328 | 0620 | 35140 | 631 | 2766 | 14815 | | 094 | | 140 | 075 | |
| 187 | 0352 | 0541 | 35124 | 628 | 2775 | 14787 | | 090 | | 125 | 079 | |
| 187 | 0376 | 0174 | 34956 | 696 | 2798 | 14633 | | 088 | | 122 | 069 | |
| 187 | 0402 | 0080 | 34915 | 712 | 2801 | 14595 | | 089 | | 116 | 062 | |
| 187 | 0426 | 0067 | 34916 | 712 | 2802 | 14593 | | 089 | | 115 | 069 | |
| 187 | 0450 | 0067 | 34917 | 712 | 2802 | 14597 | | 083 | | 116 | 070 | |

#DRY BULB LESS THAN WET BULB TEMPERATURE

C-REF-NO 001 YR 1967 DEPTH 400 WAVES 1 0222 AIR T 00.6 VIS 5
 CONS. NO 012 MONTH 1 MXSAMPD 04 WAVES 2 0545 WET B 00.1 STN
 LAT 65-578N DAY 29 NO.DPTH 13 WND-DIR 030 WW-CODE 83
 LON 28-515W HR 21.2 W-COLOR WND-SPD 14 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1006.6 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 212 | 0001 | 0655 | 35156 | 665 | 2762 | 14775 | | 100 | | | 065 | |
| 212 | 0022 | 0656 | 35154 | 664 | 2762 | 14779 | | 091 | | 130 | 064 | |
| 212 | 0074 | 0657 | 35153 | 664 | 2762 | 14788 | | 090 | | 127 | 064 | |
| 212 | 0126 | 0658 | 35156 | 663 | 2762 | 14797 | | 093 | | 128 | 065 | |
| 212 | 0177 | 0658 | 35157 | 663 | 2762 | 14805 | | 091 | | 127 | 065 | |
| 212 | 0201 | 0653 | 35156 | 656 | 2763 | 14807 | | 090 | | 128 | 065 | |
| 212 | 0226 | 0548 | 35039 | 659 | 2767 | 14767 | | 088 | | | 068 | |
| 212 | 0250 | 0427 | 34883 | 699 | 2769 | 14719 | | 084 | | 112 | 059 | |
| 212 | 0273 | 0293 | 34743 | 722 | 2771 | 14665 | | 074 | | 108 | 056 | |
| 212 | 0297 | 0237 | 34809 | 717 | 2781 | 14645 | | 081 | | | 060 | |
| 212 | 0321 | 0067 | 34914 | 717 | 2802 | 14575 | | 081 | | 113 | 058 | |
| 212 | 0346 | 0065 | 34916 | 715 | 2802 | 14579 | | 078 | | 110 | 059 | |
| 212 | 0371 | 0064 | 34919 | 714 | 2802 | 14582 | | 093 | | 112 | 060 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 331 | WAVES 1 0222 | AIR T 01.0 | VIS 8 |
| CONS. NO 013 | MONTH 1 | MXSAMPD 03 | WAVES 2 0544 | WET B 00.4 | STN |
| LAT 66-003N | DAY 29 | NO.DPTH 12 | WND-DIR 030 | WW-CODE 02 | |
| LON 28-596W | HR 22.4 | W-COLOR | WND-SPD 14 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1004.3 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 224 | 0001 | 0643 | 35150 | 665 | 2764 | 14770 | | 094 | | 126 | 064 | |
| 224 | 0019 | 0647 | 35147 | 666 | 2763 | 14775 | | 095 | | | 064 | |
| 224 | 0068 | 0647 | 35147 | 667 | 2763 | 14783 | | 095 | | | 064 | |
| 224 | 0118 | 0632 | 35128 | 669 | 2763 | 14785 | | 093 | | 126 | 064 | |
| 224 | 0143 | 0431 | 34905 | 705 | 2770 | 14704 | | 091 | | | 058 | |
| 224 | 0168 | 0314 | 34751 | 728 | 2770 | 14656 | | 091 | | 110 | 053 | |
| 224 | 0194 | 0311 | 34752 | 732 | 2770 | 14659 | | 089 | | | 054 | |
| 224 | 0219 | 0278 | 34725 | 732 | 2771 | 14649 | | 085 | | | 054 | |
| 224 | 0244 | 0190 | 34750 | 733 | 2780 | 14615 | | 086 | | 107 | 053 | |
| 224 | 0269 | -0036 | 34641 | 765 | 2785 | 14516 | | 077 | | 094 | 048 | |
| 224 | 0294 | 0088 | 34897 | 704 | 2799 | 14580 | | 082 | | | 057 | |
| 224 | 0318 | 0089 | 34912 | 706 | 2800 | 14585 | | 095 | | 110 | 057 | |

C-REF-NO 001 YR 1967 DEPTH 245 WAVES 1 0425 AIR T 02.5 VIS 8
 CONS. NO 014 MONTH 1 MXSAMPD 01 WAVES 2 04XX WET B 01.5 STN
 LAT 66-001N DAY 30 NO.DPTH 6 WND-DIR 040 WW-CODE 02
 LON 25-268W HR 12.2 W-COLOR WND-SPD 18 CLD-TPE 6
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1003.0 CLD-AMT 6 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 122 | 0001 | 0535 | 35165 | 703 | 2779 | 14727 | | | | | 066 | |
| 122 | 0010 | 0535 | 35162 | 703 | 2778 | 14728 | | | | | 068 | |
| 122 | 0035 | 0535 | 35162 | 704 | 2778 | 14732 | | | | | 067 | |
| 122 | 0060 | 0532 | 35162 | 703 | 2779 | 14735 | | | | | 065 | |
| 122 | 0086 | 0513 | 35152 | 707 | 2780 | 14732 | | | | | 058 | |
| 122 | 0112 | 0501 | 35145 | 708 | 2781 | 14731 | | | | | 061 | |

C-REF-NO 001 YR 1967 DEPTH 325 WAVES 1 0437 AIR T 02.8 VIS 8
 CONS. NO 015 MONTH 1 MXSAMPD 01 WAVES 2 04XX WET B 02.0 STN
 LAT 66-067N DAY 30 NO.DPTH 8 WND-DIR 040 WW-CODE 02
 LON 25-481W HR 13.6 W-COLOR WND-SPD 19 CLD-TPE 6
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1004.0 CLD-AMT 4 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 136 | 0003 | 0628 | 35178 | 708 | 2768 | 14765 | | | | 065 | |
| 136 | 0012 | 0628 | 35177 | 690 | 2768 | 14766 | | | | 064 | |
| 136 | 0022 | 0628 | 35179 | 685 | 2768 | 14768 | | | | 070 | |
| 136 | 0047 | 0628 | 35178 | 684 | 2768 | 14772 | | | | 063 | |
| 136 | 0072 | 0610 | 35174 | 686 | 2770 | 14769 | | | | 060 | |
| 136 | 0096 | 0592 | 35171 | 688 | 2772 | 14766 | | | | 064 | |
| 136 | 0122 | 0590 | 35172 | 690 | 2772 | 14769 | | | | 060 | |
| 136 | 0148 | 0590 | 35170 | 688 | 2772 | 14773 | | | | 061 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 466 | WAVES 1 0437 | AIR T 03.2 | VIS 8 |
| CONS. NO 016 | MONTH 1 | MXSAMPD 05 | WAVES 2 04XX | WET B 02.3 | STN |
| LAT 66-141N | DAY 30 | NO.DPTH 14 | WND-DIR 040 | WW-CODE 03 | |
| LON 26-043W | HR 15.9 | W-COLOR | WND-SPD 18 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1004.8 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SID | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 159 | 0002 | 0642 | 35167 | 684 | 2765 | 14770 | | | | | 067 | |
| 159 | 0028 | 0643 | 35164 | 676 | 2765 | 14775 | | | | | 068 | |
| 159 | 0067 | 0643 | 35165 | 678 | 2765 | 14781 | | | | | 068 | |
| 159 | 0165 | 0644 | 35164 | 677 | 2765 | 14798 | | | | | 068 | |
| 159 | 0214 | 0643 | 35167 | 673 | 2765 | 14805 | | | | | 069 | |
| 159 | 0262 | 0639 | 35172 | 670 | 2766 | 14812 | | | | | 068 | |
| 159 | 0286 | 0633 | 35169 | 676 | 2766 | 14813 | | | | | 068 | |
| 159 | 0310 | 0630 | 35169 | 676 | 2767 | 14816 | | | | | 069 | |
| 159 | 0334 | 0628 | 35169 | 674 | 2767 | 14819 | | | | | 069 | |
| 159 | 0359 | 0626 | 35169 | 678 | 2767 | 14823 | | | | | 069 | |
| 159 | 0383 | 0625 | 35170 | 674 | 2768 | 14826 | | | | | 069 | |
| 159 | 0407 | 0625 | 35170 | 669 | 2768 | 14830 | | | | | 069 | |
| 159 | 0432 | 0618 | 35169 | 677 | 2768 | 14831 | | | | | 067 | |
| 159 | 0457 | 0604 | 35170 | 681 | 2770 | 14830 | | | | | 067 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 567 | WAVES 1 0445 | AIR T 03.4 | VIS 8 |
| CONS. NO 017 | MONTH 1 | MXSAMPD 06 | WAVES 2 04XX | WET B 02.2 | STN |
| LAT 66-162N | DAY 30 | NO.DPTH 16 | WND-DIR 040 | WW-CODE 02 | |
| LON 26-169W | HR 17.5 | W-COLOR | WND-SPD 18 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1005.2 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 175 | 0007 | 0640 | 35163 | 677 | 2765 | 14770 | | 085 | | 86 | 072 | |
| 175 | 0024 | 0640 | 35160 | 670 | 2765 | 14773 | | 089 | | 112 | 072 | |
| 175 | 0050 | 0639 | 35158 | 674 | 2765 | 14777 | | 093 | | | 072 | |
| 175 | 0074 | 0639 | 35159 | 674 | 2765 | 14781 | | 072 | | 85 | 071 | |
| 175 | 0173 | 0637 | 35158 | 664 | 2765 | 14796 | | 093 | | 118 | 071 | |
| 175 | 0271 | 0638 | 35165 | 669 | 2765 | 14813 | | 091 | | 117 | 070 | |
| 175 | 0321 | 0628 | 35160 | 670 | 2766 | 14817 | | 079 | | 112 | 070 | |
| 175 | 0368 | 0627 | 35167 | 666 | 2767 | 14824 | | 071 | | 96 | 069 | |
| 175 | 0393 | 0622 | 35166 | 691 | 2768 | 14826 | | 076 | | 92 | 069 | |
| 175 | 0417 | 0594 | 35142 | 680 | 2769 | 14819 | | 075 | | 98 | 069 | |
| 175 | 0440 | 0577 | 35141 | 667 | 2771 | 14816 | | 079 | | 108 | 070 | |
| 175 | 0465 | 0355 | 35032 | 675 | 2788 | 14727 | | 075 | | 95 | 077 | |
| 175 | 0488 | -0042 | 34927 | 695 | 2809 | 14554 | | 072 | | 78 | 095 | |
| 175 | 0512 | -0045 | 34923 | 695 | 2809 | 14556 | | 084 | | 106 | 096 | |
| 175 | 0535 | -0046 | 34923 | 703 | 2809 | 14559 | | 073 | | 89 | 094 | |
| 175 | 0559 | -0045 | 34921 | 700 | 2808 | 14564 | | 074 | | 89 | 092 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 603 | WAVES 1 0548 | AIR T 03.2 | VIS 6 |
| CONS. NO 018 | MONTH 1 | MXSAMPD 06 | WAVES 2 05XX | WET B 02.2 | STN |
| LAT 66-192N | DAY 30 | NO.DPTH 15 | WND-DIR 060 | WW-CODE 50 | |
| LON 26-270W | HR 20.6 | W-COLOR | WND-SPD 19 | CLD-TPE 7 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1005.6 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 206 | 0002 | 0633 | 35170 | 675 | 2766 | 14767 | | 085 | | | 066 | |
| 206 | 0056 | 0634 | 35158 | 674 | 2765 | 14776 | | 084 | | | 065 | |
| 206 | 0106 | 0622 | 35149 | 675 | 2766 | 14779 | | 089 | | 116 | 065 | |
| 206 | 0206 | 0536 | 34939 | 702 | 2761 | 14758 | | 078 | | | 062 | |
| 206 | 0307 | -0007 | 34661 | 769 | 2786 | 14536 | | 072 | | 98 | 053 | |
| 206 | 0358 | 0088 | 34890 | 703 | 2799 | 14590 | | 073 | | 100 | 058 | |
| 206 | 0408 | 0078 | 34932 | 706 | 2803 | 14595 | | 089 | | | 058 | |
| 206 | 0433 | 0062 | 34935 | 709 | 2804 | 14592 | | 083 | | | 052 | |
| 206 | 0458 | 0048 | 34936 | 710 | 2805 | 14590 | | 077 | | 105 | 061 | |
| 206 | 0482 | 0029 | 34939 | 711 | 2806 | 14585 | | 077 | | 105 | 064 | |
| 206 | 0507 | 0016 | 34935 | 712 | 2807 | 14583 | | 071 | | 105 | 070 | |
| 206 | 0532 | -0005 | 34927 | 714 | 2807 | 14578 | | 080 | | 115 | 071 | |
| 206 | 0555 | -0016 | 34933 | 712 | 2808 | 14577 | | 087 | | 115 | 077 | |
| 206 | 0579 | -0018 | 34928 | 714 | 2808 | 14580 | | 086 | | 110 | 075 | |
| 206 | 0601 | -0022 | 34926 | 713 | 2808 | 14581 | | 082 | | 110 | 077 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 573 | WAVES 1 0548 | AIR T 03.0 | VIS 6 |
| CONS. NO 019 | MONTH 1 | MXSAMPD 06 | WAVES 2 05XX | WET B 02.5 | STN |
| LAT 66-217N | DAY 30 | NO.DPTH 16 | WND-DIR 050 | WW-CODE 50 | |
| LON 26-355W | HR 23.2 | W-COLOR | WND-SPD 18 | CLD-TPE 7 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1006.0 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 231 | 0003 | 0617 | 35148 | 680 | 2767 | 14760 | | 085 | | 113 | 060 | |
| 231 | 0012 | 0619 | 35155 | 679 | 2767 | 14763 | | 085 | | 112 | 058 | |
| 231 | 0060 | 0619 | 35150 | 680 | 2767 | 14770 | | 081 | | 122 | 057 | |
| 231 | 0158 | 0613 | 35150 | 677 | 2768 | 14784 | | 079 | | 118 | 058 | |
| 231 | 0207 | 0140 | 34715 | 748 | 2781 | 14586 | | 069 | | 105 | 057 | |
| 231 | 0257 | 0089 | 34873 | 704 | 2797 | 14574 | | 073 | | 109 | 054 | |
| 231 | 0306 | 0087 | 34924 | 704 | 2801 | 14582 | | 073 | | 110 | 052 | |
| 231 | 0356 | 0070 | 34930 | 709 | 2803 | 14583 | | 082 | | 110 | 058 | |
| 231 | 0380 | 0059 | 34933 | 711 | 2804 | 14582 | | 073 | | 111 | 058 | |
| 231 | 0404 | 0052 | 34939 | 709 | 2805 | 14583 | | 076 | | 112 | 058 | |
| 231 | 0430 | 0042 | 34938 | 709 | 2805 | 14582 | | 078 | | 110 | 058 | |
| 231 | 0454 | 0029 | 34935 | 714 | 2806 | 14580 | | 080 | | 113 | 064 | |
| 231 | 0479 | 0013 | 34929 | 720 | 2806 | 14577 | | 074 | | 108 | 065 | |
| 231 | 0503 | -0001 | 34929 | 718 | 2807 | 14575 | | 079 | | 111 | 068 | |
| 231 | 0528 | -0007 | 34928 | 718 | 2807 | 14576 | | 078 | | 110 | 068 | |
| 231 | 0552 | -0008 | 34929 | 717 | 2807 | 14580 | | 071 | | 112 | 070 | |

C-REF-NO 001 YR 1967 DEPTH 497 WAVES 1 0548 AIR T 00.1 VIS 6
 CONS. NO 020 MONTH 1 MXSAMPD 05 WAVES 2 05XX WET B 00.0 STN
 LAT 66-234N DAY 31 NO.DPTH 16 WND-DIR 030 WW-CODE 52
 LON 26-436W HR 01.5 W-COLOR WND-SPD 18 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1006.0 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 015 | 0003 | 0575 | 35118 | 701 | 2770 | 14743 | | | | | 070 | |
| 015 | 0021 | 0579 | 35122 | 692 | 2770 | 14747 | | | | | 070 | |
| 015 | 0051 | 0271 | 34802 | 743 | 2777 | 14619 | | | | | 058 | |
| 015 | 0099 | 0128 | 34670 | 760 | 2778 | 14563 | | | | | 055 | |
| 015 | 0148 | -0008 | 34614 | 767 | 2782 | 14508 | | | | | 049 | |
| 015 | 0196 | 0070 | 34835 | 706 | 2795 | 14555 | | | | | 055 | |
| 015 | 0246 | 0105 | 34898 | 701 | 2798 | 14580 | | | | | 060 | |
| 015 | 0296 | 0098 | 34924 | 705 | 2801 | 14585 | | | | | 059 | |
| 015 | 0320 | 0088 | 34926 | 706 | 2801 | 14585 | | | | | 058 | |
| 015 | 0344 | 0080 | 34929 | 708 | 2802 | 14585 | | | | | 058 | |
| 015 | 0369 | 0068 | 34932 | 709 | 2803 | 14584 | | 071 | | 108 | 058 | |
| 015 | 0394 | 0060 | 34939 | 711 | 2804 | 14585 | | 057 | | | 059 | |
| 015 | 0418 | 0055 | 34936 | 717 | 2804 | 14586 | | 065 | | 108 | 058 | |
| 015 | 0442 | 0048 | 34935 | 713 | 2805 | 14587 | | 065 | | 109 | 061 | |
| 015 | 0466 | 0031 | 34935 | 713 | 2806 | 14583 | | 062 | | 110 | 061 | |
| 015 | 0491 | 0031 | 34938 | 712 | 2806 | 14587 | | 063 | | 106 | 062 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 490 | WAVES 1 0435 | AIR T -01.1 | VIS 3 |
| CONS. NO 021 | MONTH 1 | MXSAMPD 05 | WAVES 2 04XX | WET B -01.1 | STN |
| LAT 66-258N | DAY 31 | NO.DPTH 16 | WND-DIR 040 | WW-CODE 75 | |
| LON 26-558W | HR 03.7 | W-COLOR | WND-SPD 19 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1005.6 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 037 | 0002 | -0070 | 34416 | 809 | 2769 | 14453 | | | | 050 | |
| 037 | 0017 | -0068 | 34417 | 800 | 2769 | 14456 | | | | 050 | |
| 037 | 0041 | -0066 | 34418 | 800 | 2769 | 14461 | | | | 049 | |
| 037 | 0090 | -0072 | 34479 | 794 | 2774 | 14467 | | | | 058 | |
| 037 | 0140 | 0037 | 34573 | 781 | 2776 | 14527 | | | | 061 | |
| 037 | 0165 | 0061 | 34600 | 776 | 2777 | 14542 | | | | 060 | |
| 037 | 0191 | 0074 | 34615 | 773 | 2777 | 14553 | | | | 072 | |
| 037 | 0216 | 0069 | 34613 | 773 | 2778 | 14555 | | | | 061 | |
| 037 | 0241 | 0024 | 34620 | 761 | 2781 | 14538 | | | | 060 | |
| 037 | 0266 | 0055 | 34809 | 711 | 2794 | 14559 | | | | 064 | |
| 037 | 0292 | 0076 | 34857 | 705 | 2797 | 14574 | | | | 071 | |
| 037 | 0342 | 0094 | 34900 | 702 | 2799 | 14591 | | | | 065 | |
| 037 | 0392 | 0086 | 34922 | 710 | 2801 | 14596 | | | | 064 | |
| 037 | 0441 | 0067 | 34933 | 711 | 2803 | 14595 | | | | 064 | |
| 037 | 0466 | 0041 | 34931 | 715 | 2805 | 14588 | | | | 068 | |
| 037 | 0489 | 0040 | 34927 | 713 | 2805 | 14591 | | | | 071 | |

C-REF-NO 001 YR 1967 DEPTH 426 WAVES 1 0445 AIR T -02.6 VIS 2
 CONS. NO 022 MONTH 1 MXSAMPD 04 WAVES 2 04XX WET B -02.6 STN
 LAT 66-282N DAY 31 NO.DPTH 14 WND-DIR 040 WW-CODE 75
 LON 27-107W HR 07.3 W-COLOR WND-SPD 17 CLD-TPE X
 MARSQ SQ 219 C/I 1810 W-TRNSP BARO 1004.8 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 073 | 0002 | -0136 | 34244 | 831 | 2757 | 14420 | | | | | 040 | |
| 073 | 0028 | -0154 | 34226 | 823 | 2756 | 14415 | | | | | 042 | |
| 073 | 0078 | -0151 | 34244 | 821 | 2758 | 14425 | | | | | 042 | |
| 073 | 0103 | -0095 | 34387 | 798 | 2767 | 14458 | | | | | 047 | |
| 073 | 0128 | -0089 | 34420 | 792 | 2770 | 14465 | | | | | 048 | |
| 073 | 0153 | -0089 | 34450 | 792 | 2772 | 14470 | | | | | 048 | |
| 073 | 0178 | -0115 | 34456 | 786 | 2774 | 14462 | | | | | 047 | |
| 073 | 0202 | -0134 | 34481 | 784 | 2776 | 14457 | | | | | 045 | |
| 073 | 0228 | -0074 | 34570 | 771 | 2781 | 14491 | | | | | 051 | |
| 073 | 0276 | 0038 | 34768 | 719 | 2792 | 14553 | | | | | | |
| 073 | 0326 | 0069 | 34834 | 709 | 2795 | 14576 | | | | | 060 | |
| 073 | 0375 | 0073 | 34901 | 709 | 2800 | 14587 | | | | | 062 | |
| 073 | 0400 | 0068 | 34915 | 713 | 2802 | 14589 | | | | | 062 | |
| 073 | 0427 | 0066 | 34916 | 712 | 2802 | 14592 | | | | | 062 | |

*DEPTH OF BOTTOM OBSERVATION GREATER THAN SOUNDING

| | | | | | | |
|--------------|----------|---------|----|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 0445 | AIR T -02.5 | VIS 6 |
| CONS. NO 023 | MONTH 1 | MXSAMPD | 04 | WAVES 2 04XX | WET B -02.5 | STN |
| LAT 66-343N | DAY 31 | NO.DPTH | 14 | WND-DIR 040 | WW-CODE 71 | |
| LON 27-150W | HR 09.9 | W-COLOR | | WND-SPD 18 | CLD-TPE 7 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 1003.7 | CLD-APT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 099 | 0003 | -0183 | 34010 | 821 | 2740 | 14394 | | | | | 042 | |
| 099 | 0017 | -0183 | 34010 | 823 | 2740 | 14397 | | | | | 040 | |
| 099 | 0041 | -0184 | 34009 | 822 | 2740 | 14400 | | | | | 042 | |
| 099 | 0090 | -0179 | 34063 | 802 | 2744 | 14411 | | | | | 036 | |
| 099 | 0138 | -0166 | 34231 | 773 | 2757 | 14428 | | | | | 034 | |
| 099 | 0187 | -0141 | 34363 | 781 | 2767 | 14450 | | | | | 044 | |
| 099 | 0211 | -0130 | 34422 | 779 | 2772 | 14460 | | | | | 047 | |
| 099 | 0236 | -0146 | 34452 | 795 | 2774 | 14457 | | | | | 042 | |
| 099 | 0262 | -0128 | 34497 | 794 | 2778 | 14470 | | | | | 044 | |
| 099 | 0287 | -0032 | 34634 | 741 | 2785 | 14521 | | | | | 053 | |
| 099 | 0311 | 0037 | 34794 | 717 | 2794 | 14558 | | | | | 058 | |
| 099 | 0336 | 0060 | 34885 | 714 | 2800 | 14574 | | | | | 061 | |
| 099 | 0361 | 0062 | 34910 | 717 | 2802 | 14580 | | | | | 062 | |
| 099 | 0384 | 0059 | 34916 | 714 | 2803 | 14582 | | | | | 064 | |

C-REF-NO 001 YR 1967 DEPTH 338 WAVES 1 0434 AIR T -03.0 VIS 6
 CONS. NO 024 MONTH 1 MXSAMPD 03 WAVES 2 04XX WET B -03.0 STN
 LAT 66-396N DAY 31 NO.DPTH 12 WND-DIR 040 WW-CODE 70
 LON 27-325W HR 11.3 W-COLOR WND-SPD 15 CLD-TPE 7
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1004.2 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 114 | 0003 | -0177 | 34019 | 822 | 2740 | 14397 | | | | | 042 | |
| 114 | 0032 | -0177 | 34021 | 815 | 2740 | 14402 | | | | | 042 | |
| 114 | 0082 | -0176 | 34022 | 817 | 2740 | 14411 | | | | | 042 | |
| 114 | 0131 | -0174 | 34082 | 823 | 2745 | 14421 | | | | | 038 | |
| 114 | 0157 | -0163 | 34203 | 779 | 2755 | 14432 | | | | | 036 | |
| 114 | 0182 | -0152 | 34274 | 776 | 2760 | 14442 | | | | | 041 | |
| 114 | 0207 | -0158 | 34347 | 786 | 2766 | 14445 | | | | | 040 | |
| 114 | 0232 | -0126 | 34407 | 776 | 2770 | 14465 | | | | | 046 | |
| 114 | 0257 | -0100 | 34464 | 763 | 2774 | 14482 | | | | | 048 | |
| 114 | 0282 | -0003 | 34663 | 733 | 2786 | 14534 | | | | | 055 | |
| 114 | 0306 | 0002 | 34679 | 732 | 2787 | 14540 | | | | | 056 | |
| 114 | 0330 | 0016 | 34712 | 724 | 2789 | 14551 | | | | | 055 | |

| | | | | | |
|--------------|----------|------------|-------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 384 | WAVES 1 XX | AIR T -03.0 | VIS 4 |
| CONS. NO 025 | MONTH 1 | MXSAMPD 04 | WAVES 2 XX | WET B -03.0 | STN |
| LAT 67-075N | DAY 31 | NO.DPTH 8 | WND-DIR 050 | WW-CODE 77 | |
| LON 27-100W | HR 20.1 | W-COLOR | WND-SPD 10 | CLD-TPE 7 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1004.8 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 201 | 0008 | -0179 | 33820 | 800 | 2724 | 14394 | | | | 050 | |
| 201 | 0058 | -0178 | 33830 | 799 | 2725 | 14403 | | | | 053 | |
| 201 | 0108 | -0154 | 33865 | 796 | 2727 | 14423 | | | | 052 | |
| 201 | 0159 | -0184 | 33952 | 795 | 2735 | 14419 | | | | 045 | |
| 201 | 0210 | -0117 | 34098 | 780 | 2745 | 14461 | | | | 049 | |
| 201 | 0262 | -0073 | 34320 | 761 | 2761 | 14493 | | | | 054 | |
| 201 | 0315 | -0021 | 34572 | 738 | 2779 | 14529 | | | | 060 | |
| 201 | 0370 | -0001 | 34648 | 732 | 2784 | 14549 | | | | 061 | |

C-REF-NO 001 YR 1967 DEPTH 460 WAVES 1 XX AIR T -03.0 VIS 4
 CONS. NO 026 MONTH 1 MXSAMPD 04 WAVES 2 XX WET B -03.0 STN
 LAT 67-00N DAY 31 NO.DPTH 14 WND-DIR 050 WW-CODE 77
 LON 26-46W HR 22.6 W-COLOR WND-SPD 10 CLD-TPE X
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1003.9 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 226 | 0002 | -0183 | 33923 | 795 | 2733 | 14393 | | | | | 050 | |
| 226 | 0047 | -0183 | 33973 | 795 | 2737 | 14401 | | | | | 047 | |
| 226 | 0095 | -0183 | 34000 | 801 | 2739 | 14409 | | | | | 045 | |
| 226 | 0144 | -0184 | 34034 | 798 | 2742 | 14418 | | | | | 047 | |
| 226 | 0193 | -0173 | 34154 | 795 | 2751 | 14433 | | | | | 041 | |
| 226 | 0242 | -0160 | 34328 | 786 | 2765 | 14449 | | | | | 041 | |
| 226 | 0267 | -0158 | 34362 | 789 | 2767 | 14455 | | | | | 047 | |
| 226 | 0291 | -0158 | 34389 | 790 | 2770 | 14459 | | | | | 045 | |
| 226 | 0316 | -0157 | 34423 | 791 | 2772 | 14464 | | | | | 048 | |
| 226 | 0340 | -0068 | 34541 | 756 | 2779 | 14512 | | | | | 058 | |
| 226 | 0366 | -0024 | 34630 | 741 | 2784 | 14537 | | | | | 058 | |
| 226 | 0390 | 0032 | 34765 | 722 | 2792 | 14569 | | | | | 060 | |
| 226 | 0414 | 0063 | 34898 | 717 | 2801 | 14589 | | | | | 062 | |
| 226 | 0438 | 0067 | 34916 | 718 | 2802 | 14595 | | | | | 063 | |

C-REF-NO 001 YR 1967 DEPTH 610 WAVES 1 04XX AIR T -01.1 VIS 2
 CONS. NO 027 MONTH 2 MXSAMPD 06 WAVES 2 0433 WET B -01.1 STN
 LAT 66-550N DAY 01 NO.DPTH 16 WND-DIR 050 WW-CODE 49
 LON 26-315W HR 00.7 W-COLOR WND-SPD 10 CLD-TPE X
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1002.3 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 007 | 0002 | -0165 | 34172 | 826 | 2752 | 14405 | | | | 038 | |
| 007 | 0041 | -0150 | 34263 | 826 | 2759 | 14420 | | | | 038 | |
| 007 | 0088 | -0143 | 34294 | 824 | 2762 | 14431 | | | | 036 | |
| 007 | 0133 | -0137 | 34316 | 811 | 2763 | 14442 | | | | 045 | |
| 007 | 0179 | -0073 | 34482 | 790 | 2774 | 14482 | | | | 052 | |
| 007 | 0274 | -0018 | 34665 | 737 | 2787 | 14525 | | | | 055 | |
| 007 | 0324 | 0070 | 34820 | 711 | 2794 | 14576 | | | | 057 | |
| 007 | 0374 | 0091 | 34880 | 707 | 2798 | 14594 | | | | 058 | |
| 007 | 0400 | 0098 | 34900 | 706 | 2799 | 14602 | | | | 055 | |
| 007 | 0426 | 0102 | 34915 | 706 | 2800 | 14608 | | | | 053 | |
| 007 | 0452 | 0099 | 34922 | 708 | 2800 | 14611 | | | | 053 | |
| 007 | 0477 | 0093 | 34925 | 712 | 2801 | 14613 | | | | 053 | |
| 007 | 0502 | 0078 | 34928 | 714 | 2802 | 14610 | | | | 053 | |
| 007 | 0527 | 0075 | 34925 | 715 | 2802 | 14613 | | | | 055 | |
| 007 | 0551 | 0073 | 34933 | 715 | 2803 | 14616 | | | | 055 | |
| 007 | 0573 | 0071 | 34932 | 708 | 2803 | 14619 | | | | 057 | |

C-REF-NO 001 YR 1967 DEPTH 675 WAVES 1 0422 AIR T -01.5 VIS 3
 CONS. NO 028 MONTH 2 MXSAMPD 07 WAVES 2 04XX WET B -01.6 STN
 LAT 66-490N DAY 01 NO.DPTH 16 WND-DIR 040 WW-CODE 73
 LON 26-127W HR 03.6 W-COLOR WND-SPD 12 CLD-TPE X
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1000.0 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 036 | 0001 | -0163 | 34162 | 826 | 2751 | 14406 | | | | | 038 | |
| 036 | 0010 | -0164 | 34163 | 825 | 2752 | 14407 | | | | | 037 | |
| 036 | 0060 | -0161 | 34211 | 809 | 2755 | 14417 | | | | | 036 | |
| 036 | 0161 | -0157 | 34434 | 790 | 2773 | 14439 | | | | | 040 | |
| 036 | 0261 | -0001 | 34690 | 737 | 2788 | 14531 | | | | | 052 | |
| 036 | 0361 | 0104 | 34896 | 706 | 2798 | 14598 | | | | | 053 | |
| 036 | 0410 | 0099 | 34919 | 722 | 2800 | 14604 | | | | | 055 | |
| 036 | 0460 | 0090 | 34928 | 712 | 2802 | 14609 | | | | | 053 | |
| 036 | 0485 | 0086 | 34929 | 715 | 2802 | 14611 | | | | | 052 | |
| 036 | 0509 | 0080 | 34930 | 717 | 2802 | 14612 | | | | | 053 | |
| 036 | 0533 | 0074 | 34932 | 732 | 2803 | 14614 | | | | | 055 | |
| 036 | 0558 | 0069 | 34933 | 748 | 2803 | 14616 | | | | | 055 | |
| 036 | 0582 | 0054 | 34935 | 749 | 2804 | 14613 | | | | | 055 | |
| 036 | 0606 | 0039 | 34934 | 732 | 2805 | 14610 | | | | | 060 | |
| 036 | 0630 | 0038 | 34935 | 726 | 2805 | 14614 | | | | | 060 | |
| 036 | 0654 | 0039 | 34935 | 722 | 2805 | 14618 | | | | | 059 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 682 | WAVES 1 0422 | AIR T -01.1 | VIS 3 |
| CONS. NO 029 | MONTH 2 | MXSAMPD 07 | WAVES 2 04XX | WET B -01.2 | STN |
| LAT 66-460N | DAY 01 | NO.DPTH 14 | WND-DIR 040 | WW-CODE 73 | |
| LON 26-035W | HR 05.8 | W-COLOR | WND-SPD 11 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 998.5 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 059 | 0002 | -0160 | 34186 | | 2753 | 14408 | | | | 036 | |
| 059 | 0053 | -0127 | 34297 | 811 | 2761 | 14433 | | | | 040 | |
| 059 | 0104 | -0148 | 34421 | 782 | 2772 | 14433 | | | | 044 | |
| 059 | 0155 | -0166 | 34481 | 801 | 2777 | 14434 | | | | 042 | |
| 059 | 0205 | -0057 | 34601 | 750 | 2783 | 14495 | | | | 050 | |
| 059 | 0255 | 0064 | 34793 | 710 | 2792 | 14561 | | | | 058 | |
| 059 | 0304 | 0083 | 34860 | 704 | 2797 | 14579 | | | | 053 | |
| 059 | 0353 | 0102 | 34908 | 706 | 2799 | 14596 | | | | 057 | |
| 059 | 0449 | 0085 | 34929 | 692 | 2802 | 14605 | | | | 055 | |
| 059 | 0499 | 0072 | 34929 | 729 | 2803 | 14607 | | | | 056 | |
| 059 | 0549 | 0059 | 34933 | 707 | 2804 | 14610 | | | | 055 | |
| 059 | 0601 | 0035 | 34932 | 709 | 2805 | 14608 | | | | 060 | |
| 059 | 0629 | 0030 | 34932 | 732 | 2806 | 14610 | | | | 062 | |
| 059 | 0659 | 0029 | 34929 | 725 | 2805 | 14614 | | | | 061 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 728 | WAVES 1 0422 | AIR T -00.8 | VIS 2 |
| CONS. NO 030 | MONTH 2 | MXSAMPD 07 | WAVES 2 0433 | WET B -00.8 | STN |
| LAT 66-431N | DAY 01 | NO.DPTH 15 | WND-DIR 040 | WW-CODE 45 | |
| LON 25-568W | HR 08.2 | W-COLOR | WND-SPD 12 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 995.2 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 082 | 0000 | -0113 | 34307 | 812 | 2762 | 14431 | | | | 042 | |
| 082 | 0040 | -0099 | 34320 | 810 | 2762 | 14444 | | | | 042 | |
| 082 | 0090 | -0160 | 34399 | 790 | 2771 | 14425 | | | | 040 | |
| 082 | 0140 | -0139 | 34493 | 789 | 2778 | 14445 | | | | 043 | |
| 082 | 0191 | 0038 | 34747 | 709 | 2790 | 14538 | | | | 056 | |
| 082 | 0240 | 0087 | 34851 | 704 | 2796 | 14570 | | | | 054 | |
| 082 | 0291 | 0104 | 34894 | 703 | 2798 | 14587 | | | | 055 | |
| 082 | 0340 | 0104 | 34914 | 706 | 2799 | 14595 | | | | 057 | |
| 082 | 0391 | 0092 | 34921 | 714 | 2801 | 14598 | | | | 056 | |
| 082 | 0491 | 0068 | 34931 | 717 | 2803 | 14604 | | | | 056 | |
| 082 | 0540 | 0059 | 34935 | 720 | 2804 | 14608 | | | | 055 | |
| 082 | 0589 | 0030 | 34933 | 724 | 2806 | 14603 | | | | 059 | |
| 082 | 0637 | 0023 | 34932 | 722 | 2806 | 14608 | | | | 062 | |
| 082 | 0661 | 0022 | 34932 | 724 | 2806 | 14612 | | | | 060 | |
| 082 | 0686 | 0023 | 34935 | 723 | 2806 | 14616 | | | | 060 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 759 | WAVES 1 0623 | AIR T 03.0 | VIS 7 |
| CONS. NO 031 | MONTH 2 | MXSAMPD 07 | WAVES 2 04XX | WET B 02.5 | STN |
| LAT 66-360N | DAY 01 | NO.DPTH 18 | WND-DIR 060 | WW-CODE 51 | |
| LON 25-378W | HR 10.1 | W-COLOR | WND-SPD 15 | CLD-TPE 7 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 993.1 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 101 | 0002 | 0465 | 35024 | 710 | 2776 | 14696 | | | | | 065 | |
| 101 | 0060 | 0467 | 35012 | 705 | 2774 | 14707 | | | | | 058 | |
| 101 | 0107 | 0111 | 34671 | 763 | 2779 | 14556 | | | | | 053 | |
| 101 | 0153 | 0025 | 34758 | 748 | 2792 | 14526 | | | | | 053 | |
| 101 | 0243 | 0094 | 34915 | 711 | 2800 | 14575 | | | | | 055 | |
| 101 | 0337 | 0070 | 34933 | 713 | 2803 | 14580 | | | | | 055 | |
| 101 | 0386 | 0056 | 34932 | 711 | 2804 | 14581 | | | | | 058 | |
| 101 | 0434 | 0047 | 34942 | 719 | 2805 | 14585 | | | | | 066 | |
| 101 | 0485 | 0034 | 34942 | 715 | 2806 | 14588 | | | | | 058 | |
| 101 | 0535 | 0016 | 34937 | 722 | 2807 | 14588 | | | | | 066 | |
| 101 | 0561 | 0004 | 34934 | 721 | 2807 | 14587 | | | | | 069 | |
| 101 | 0586 | -0009 | 34907 | 727 | 2806 | 14585 | | | | | 072 | |
| 101 | 0611 | -0016 | 34925 | 723 | 2807 | 14586 | | | | | 070 | |
| 101 | 0635 | -0027 | 34931 | 721 | 2808 | 14585 | | | | | 070 | |
| 101 | 0660 | -0032 | 34918 | 722 | 2808 | 14587 | | | | | 072 | |
| 101 | 0684 | -0044 | 34920 | 723 | 2808 | 14585 | | | | | 079 | |
| 101 | 0708 | -0046 | 34924 | 722 | 2809 | 14588 | | | | | 081 | |
| 101 | 0730 | -0045 | 34914 | 722 | 2808 | 14592 | | | | | 081 | |

C-REF-NO 001 YR 1967 DEPTH 440 WAVES 1 0523 AIR T 03.6 VIS 7
 CONS. NO 032 MONTH 2 MXSAMPD 04 WAVES 2 04XX WET B 03.0 STN
 LAT 66-308N DAY 01 NO.DPTH 14 WND-DIR 050 WW-CODE 01
 LON 25-202W HR 11.6 W-COLOR WND-SPD 15 CLC-TPE 6
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 991.1 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 116 | 0011 | 0628 | 35170 | 680 | 2767 | 14766 | | | | | 061 | |
| 116 | 0029 | 0629 | 35172 | 678 | 2767 | 14770 | | | | | 060 | |
| 116 | 0077 | 0629 | 35171 | 680 | 2767 | 14777 | | | | | 059 | |
| 116 | 0125 | 0628 | 35172 | 680 | 2767 | 14785 | | | | | 058 | |
| 116 | 0172 | 0627 | 35172 | 678 | 2767 | 14792 | | | | | 058 | |
| 116 | 0222 | 0620 | 35173 | 683 | 2768 | 14798 | | | | | 059 | |
| 116 | 0247 | 0616 | 35173 | 684 | 2769 | 14800 | | | | | 059 | |
| 116 | 0272 | 0614 | 35171 | 685 | 2769 | 14803 | | | | | 059 | |
| 116 | 0298 | 0613 | 35170 | 684 | 2769 | 14807 | | | | | 060 | |
| 116 | 0323 | 0613 | 35174 | 683 | 2769 | 14811 | | | | | 059 | |
| 116 | 0348 | 0613 | 35171 | 682 | 2769 | 14816 | | | | | 060 | |
| 116 | 0373 | 0612 | 35157 | 684 | 2768 | 14819 | | | | | 060 | |
| 116 | 0397 | 0609 | 35169 | 686 | 2770 | 14822 | | | | | 057 | |
| 116 | 0420 | 0517 | 35137 | 690 | 2778 | 14788 | | | | | 063 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 165 | WAVES 1 0523 | AIR T 04.0 | VIS 8 |
| CONS. NO 033 | MONTH 2 | MXSAMPD 02 | WAVES 2 04XX | WET B 03.0 | STN |
| LAT 66-246N | DAY 01 | NO.DPTH 8 | WND-DIR 050 | WW-CODE 01 | |
| LON 25-015W | HR 13.0 | W-COLOR | WND-SPD 16 | CLD-TPE 6 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 989.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 130 | 0002 | 0538 | 35150 | 704 | 2777 | 14728 | | | | 058 | |
| 130 | 0012 | 0538 | 35153 | 704 | 2777 | 14730 | | | | 058 | |
| 130 | 0033 | 0538 | 35152 | 705 | 2777 | 14733 | | | | 058 | |
| 130 | 0054 | 0538 | 35157 | 703 | 2778 | 14737 | | | | 057 | |
| 130 | 0080 | 0538 | 35149 | 703 | 2777 | 14741 | | | | 058 | |
| 130 | 0105 | 0532 | 35146 | 706 | 2777 | 14743 | | | | 058 | |
| 130 | 0129 | 0514 | 35137 | 710 | 2779 | 14739 | | | | 057 | |
| 130 | 0153 | 0484 | 35118 | 717 | 2781 | 14730 | | | | 056 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 300 | WAVES 1 2323 | AIR T 04.0 | VIS 4 |
| CONS. NO 034 | MONTH 2 | MXSAMPD 03 | WAVES 2 23XX | WET B 02.5 | STN |
| LAT 65-371N | DAY 04 | NO.DPTH 12 | WND-DIR 230 | WW-CODE 72 | |
| LON 31-562W | HR 00.1 | W-COLOR | WND-SPD 08 | CLD-TPE 7 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 989.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 001 | 0001 | 0645 | 35129 | 660 | 2762 | 14771 | | | | 070 | |
| 001 | 0020 | 0641 | 35126 | 675 | 2762 | 14772 | | | | 069 | |
| 001 | 0045 | 0592 | 35073 | 652 | 2764 | 14756 | | | | 073 | |
| 001 | 0075 | 0587 | 35065 | 653 | 2764 | 14759 | | | | 075 | |
| 001 | 0095 | 0542 | 35009 | 666 | 2765 | 14743 | | | | 072 | |
| 001 | 0120 | 0543 | 35024 | 645 | 2766 | 14748 | | | | 077 | |
| 001 | 0145 | 0502 | 34978 | 666 | 2768 | 14735 | | | | 072 | |
| 001 | 0170 | 0391 | 34837 | 706 | 2769 | 14691 | | | | 065 | |
| 001 | 0195 | 0356 | 34815 | 704 | 2771 | 14680 | | | | 067 | |
| 001 | 0220 | 0279 | 34737 | 727 | 2772 | 14650 | | | | 061 | |
| 001 | 0245 | 0300 | 34792 | 709 | 2774 | 14664 | | | | 066 | |
| 001 | 0270 | 0193 | 34764 | 699 | 2781 | 14621 | | | | 070 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 358 | WAVES 1 2222 | AIR T 02.2 | VIS 5 |
| CONS. NO 035 | MONTH 2 | MXSAMPD 03 | WAVES 2 2334 | WET B 01.8 | STN |
| LAT 65-320N | DAY 04 | NO.DPTH 12 | WND-DIR 220 | WW-CODE 85 | |
| LON 31-226W | HR 02.1 | W-COLOR | WND-SPD 12 | CLD-TPE 7 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 989.7 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 021 | 0003 | 0670 | 35150 | 661 | 2760 | 14781 | | | | 069 | |
| 021 | 0027 | 0670 | 35150 | 661 | 2760 | 14785 | | | | 067 | |
| 021 | 0077 | 0667 | 35147 | 664 | 2760 | 14792 | | | | 071 | |
| 021 | 0127 | 0660 | 35142 | 659 | 2761 | 14798 | | | | 072 | |
| 021 | 0153 | 0651 | 35135 | 659 | 2761 | 14798 | | | | 072 | |
| 021 | 0179 | 0633 | 35111 | 663 | 2762 | 14795 | | | | 071 | |
| 021 | 0203 | 0619 | 35094 | 664 | 2762 | 14793 | | | | 070 | |
| 021 | 0229 | 0612 | 35090 | 665 | 2763 | 14794 | | | | 072 | |
| 021 | 0253 | 0602 | 35076 | 659 | 2763 | 14794 | | | | 074 | |
| 021 | 0277 | 0578 | 35045 | 665 | 2764 | 14788 | | | | 071 | |
| 021 | 0300 | 0553 | 35025 | 657 | 2765 | 14782 | | | | 079 | |
| 021 | 0324 | 0457 | 34971 | 650 | 2772 | 14745 | | | | 084 | |

C-REF-NO 001 YR 1967 DEPTH 627 WAVES 1 2121 AIR T 02.6 VIS 8
 CONS. NO 036 MONTH 2 MXSAMPD 05 WAVES 2 2334 WET B 01.8 STN
 LAT 65-262N DAY 04 NO.DPTH 16 WND-DIR 210 WW-CODE 01
 LON 30-558W HR 04.0 W-COLOR WND-SPD 11 CLD-TPE
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 990.0 CLD-AMT 0 HW

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 040 | 0003 | 0625 | 35090 | 669 | 2761 | 14763 | | | | | 072 | |
| 040 | 0041 | 0636 | 35115 | 663 | 2762 | 14774 | | | | | 071 | |
| 040 | 0090 | 0653 | 35136 | 661 | 2761 | 14789 | | | | | 071 | |
| 040 | 0138 | 0654 | 35144 | 665 | 2762 | 14797 | | | | | 072 | |
| 040 | 0186 | 0633 | 35114 | 667 | 2762 | 14796 | | | | | 072 | |
| 040 | 0233 | 0604 | 35089 | 665 | 2764 | 14792 | | | | | 074 | |
| 040 | 0281 | 0538 | 35002 | 678 | 2765 | 14772 | | | | | 072 | |
| 040 | 0330 | 0482 | 34934 | 696 | 2767 | 14756 | | | | | 066 | |
| 040 | 0353 | 0464 | 34949 | 693 | 2770 | 14753 | | | | | 069 | |
| 040 | 0377 | 0408 | 34932 | 664 | 2775 | 14733 | | | | | 082 | |
| 040 | 0402 | 0370 | 34895 | 677 | 2776 | 14721 | | | | | 082 | |
| 040 | 0426 | 0364 | 34902 | 678 | 2777 | 14722 | | | | | 082 | |
| 040 | 0450 | 0317 | 34848 | 703 | 2777 | 14706 | | | | | 077 | |
| 040 | 0474 | 0323 | 34897 | 688 | 2780 | 14713 | | | | | 081 | |
| 040 | 0499 | 0281 | 34887 | 686 | 2783 | 14699 | | | | | 084 | |
| 040 | 0523 | 0256 | 34864 | 688 | 2784 | 14692 | | | | | 078 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 912 | WAVES 1 2323 | AIR T 01.6 | VIS 8 |
| CONS. NO 037 | MONTH 2 | MXSAMPD 09 | WAVES 2 23XX | WET B 00.7 | STN |
| LAT 65-207N | DAY 04 | NO.DPTH 19 | WND-DIR 230 | WW-CODE 02 | |
| LON 30-330W | HR 06.2 | W-COLOR | WND-SPD 18 | CLD-TPE 9 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 990.2 | CLD-AMT 2 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 062 | 0002 | 0674 | 35154 | 679 | 2760 | 14783 | | | | 068 | |
| 062 | 0042 | 0678 | 35155 | 661 | 2759 | 14791 | | | | 070 | |
| 062 | 0090 | 0679 | 35155 | 661 | 2759 | 14799 | | | | 069 | |
| 062 | 0140 | 0679 | 35157 | 659 | 2759 | 14807 | | | | 070 | |
| 062 | 0237 | 0679 | 35152 | 659 | 2759 | 14823 | | | | 069 | |
| 062 | 0333 | 0671 | 35145 | 661 | 2759 | 14836 | | | | 069 | |
| 062 | 0427 | 0651 | 35133 | 621 | 2761 | 14843 | | | | 081 | |
| 062 | 0520 | 0535 | 35049 | 585 | 2769 | 14811 | | | | 106 | |
| 062 | 0612 | 0476 | 35012 | 601 | 2773 | 14801 | | | | 105 | |
| 062 | 0659 | 0444 | 34995 | 611 | 2776 | 14796 | | | | 105 | |
| 062 | 0705 | 0425 | 34970 | 622 | 2776 | 14795 | | | | 104 | |
| 062 | 0729 | 0430 | 34989 | 620 | 2777 | 14801 | | | | 104 | |
| 062 | 0752 | 0427 | 34994 | 620 | 2777 | 14804 | | | | 105 | |
| 062 | 0776 | 0419 | 34990 | 623 | 2778 | 14805 | | | | 106 | |
| 062 | 0800 | 0415 | 34984 | 628 | 2778 | 14807 | | | | 105 | |
| 062 | 0825 | 0408 | 34984 | 628 | 2779 | 14808 | | | | 106 | |
| 062 | 0849 | 0404 | 34979 | 626 | 2779 | 14810 | | | | 108 | |
| 062 | 0874 | 0405 | 34979 | 628 | 2779 | 14815 | | | | 108 | |
| 062 | 0900 | 0369 | 34950 | 649 | 2780 | 14804 | | | | 093 | |

C-REF-NO 001 YR 1967 DEPTH 1380 WAVES 1 2021 AIR T 00.8 VIS 1
 CONS. NO 038 MONTH 2 MXSAMPD 14 WAVES 2 2339 WET B 00.4 STN
 LAT 65-139N DAY 04 NO.DPTH 27 WND-DIR 160 WW-CODE 75
 LON 30-216W HR 12.6 W-COLOR WND-SPD 20 CLD-TPE X
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 986.1 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 116 | 0003 | 0695 | 35168 | 657 | 2758 | 14791 | | | | 067 | |
| 116 | 0052 | 0698 | 35167 | 656 | 2757 | 14801 | | | | 067 | |
| 116 | 0099 | 0698 | 35166 | 656 | 2757 | 14808 | | | | | |
| 116 | 0146 | 0699 | 35170 | 654 | 2757 | 14816 | | | | 068 | |
| 116 | 0193 | 0699 | 35166 | 658 | 2757 | 14824 | | | | 064 | |
| 116 | 0283 | 0698 | 35165 | 656 | 2757 | 14838 | | | | 066 | |
| 116 | 0373 | 0684 | 35142 | 665 | 2757 | 14847 | | | | 068 | |
| 116 | 0464 | 0670 | 35140 | 601 | 2759 | 14857 | | | | 082 | |
| 116 | 0555 | 0635 | 35113 | 586 | 2762 | 14858 | | | | 092 | |
| 116 | 0648 | 0592 | 35083 | 577 | 2765 | 14855 | | | | 098 | |
| 116 | 0696 | 0555 | 35052 | 579 | 2767 | 14848 | | | | 101 | |
| 116 | 0744 | 0541 | 35040 | 578 | 2768 | 14850 | | | | 101 | |
| 116 | 0793 | 0531 | 35048 | 585 | 2770 | 14854 | | | | 096 | |
| 116 | 0842 | 0507 | 35028 | 589 | 2771 | 14852 | | | | 096 | |
| 116 | 0892 | 0491 | 35013 | 595 | 2772 | 14854 | | | | 097 | |
| 116 | 0942 | 0483 | 35011 | 596 | 2772 | 14859 | | | | 105 | |
| 130 | 0983 | 0457 | 34999 | 717 | 2774 | 14855 | | | | 065 | |
| 116 | 0993 | 0462 | 34997 | 600 | 2774 | 14859 | | | | 104 | |
| 116 | 1045 | 0461 | | 623 | | | | | | 077 | |
| 126 | 1137 | 0370 | 34920 | 654 | 2777 | 14843 | | | | 087 | |
| 126 | 1162 | 0346 | 34897 | 659 | 2778 | 14837 | | | | 085 | |
| 126 | 1188 | 0306 | 34853 | 676 | 2778 | 14824 | | | | 081 | |
| 126 | 1217 | 0236 | 34794 | 703 | 2780 | 14798 | | | | 069 | |
| 126 | 1248 | 0161 | 34765 | 721 | 2783 | 14770 | | | | 063 | |
| 126 | 1281 | 0147 | 34771 | 720 | 2785 | 14769 | | | | 064 | |
| 126 | 1316 | 0146 | 34770 | 713 | 2785 | 14775 | | | | 066 | |
| 126 | 1354 | 0146 | 34774 | 718 | 2785 | 14781 | | | | 067 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1500 | WAVES 1 2123 | AIR T -02.5 | VIS 6 |
| CONS. NO 039 | MONTH 2 | MXSAMPD 14 | WAVES 2 2059 | WET B -02.5 | STN |
| LAT 65-121N | DAY 04 | NO.DPTH 29 | WND-DIR 230 | WW-CODE 86 | |
| LOX 30-030W | HR 18.9 | W-COLOR | WND-SPD 18 | CLD-TPE 9 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 980.6 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 173 | 0003 | 0692 | 35175 | 683 | 2759 | 14790 | | | | | 065 | |
| 173 | 0026 | 0698 | 35173 | 658 | 2758 | 14796 | | | | | 067 | |
| 173 | 0076 | 0698 | 35172 | 659 | 2758 | 14805 | | | | | 067 | |
| 173 | 0126 | 0699 | 35172 | 659 | 2758 | 14813 | | | | | 070 | |
| 173 | 0174 | 0699 | 35167 | 656 | 2757 | 14821 | | | | | 069 | |
| 161 | 0258 | 0699 | 35166 | | 2757 | 14835 | | | | | | |
| 173 | 0273 | 0699 | 35169 | 656 | 2757 | 14837 | | | | | 070 | |
| 173 | 0371 | 0682 | 35141 | 642 | 2758 | 14846 | | | | | 075 | |
| 173 | 0471 | 0656 | 35118 | 597 | 2759 | 14852 | | | | | 091 | |
| 173 | 0569 | 0641 | 35116 | 581 | 2761 | 14862 | | | | | 096 | |
| 173 | 0669 | 0607 | 35094 | 578 | 2764 | 14865 | | | | | 101 | |
| 173 | 0767 | 0566 | | 575 | | | | | | | 105 | |
| 173 | 0867 | 0522 | 35043 | 586 | 2770 | 14863 | | | | | 109 | |
| 173 | 0967 | 0495 | 35026 | 594 | 2772 | 14868 | | | | | 109 | |
| 173 | 1069 | 0466 | 35008 | 607 | 2774 | 14873 | | | | | 111 | |
| 173 | 1119 | 0448 | 34993 | 617 | 2775 | 14874 | | | | | 109 | |
| 189 | 1246 | 0429 | 34990 | 622 | 2777 | 14887 | | | | | 108 | |
| 189 | 1270 | 0423 | 34988 | 623 | 2777 | 14889 | | | | | 104 | |
| 173 | 1272 | 0428 | 34985 | 620 | 2777 | 14891 | | | | | 110 | |
| 189 | 1295 | 0415 | 34976 | 628 | 2777 | 14889 | | | | | 103 | |
| 189 | 1319 | 0401 | 34951 | 646 | 2777 | 14887 | | | | | 095 | |
| 189 | 1345 | 0326 | 34898 | 670 | 2780 | 14859 | | | | | 083 | |
| 189 | 1371 | 0303 | 34901 | 664 | 2782 | 14854 | | | | | 086 | |
| 189 | 1397 | 0234 | 34860 | 683 | 2785 | 14828 | | | | | 084 | |
| 189 | 1423 | 0229 | 34863 | 683 | 2786 | 14830 | | | | | 079 | |
| 189 | 1450 | 0214 | 34854 | 689 | 2786 | 14828 | | | | | 077 | |

C-REF-NO 001 YR 1967 DEPTH 1550 WAVES 1 2835 AIR T 02.1 VIS 8
 CONS. NO 041 MONTH 2 MXSAMPD 15 WAVES 2 28XX WET B 00.2 STN
 LAT 65-000N DAY 06 NO.DPTH 21 WND-DIR 290 WW-CODE 02
 LON 29-225W HR 07.1 W-COLOR WND-SPD 09 CLD-TPE
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1013.0 CLD-AMT 0 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 077 | 0003 | 0693 | 35163 | 664 | 2758 | 14790 | | | | 068 | |
| 059 | 0100 | 0696 | 35165 | 659 | 2757 | 14808 | | | | 064 | |
| 059 | 0199 | 0690 | 35157 | 664 | 2758 | 14821 | | | | 064 | |
| 059 | 0300 | 0692 | 35157 | 664 | 2757 | 14839 | | | | 065 | |
| 059 | 0499 | 0654 | 35107 | 666 | 2759 | 14856 | | | | 069 | |
| 059 | 0698 | 0542 | 35025 | 594 | 2767 | 14843 | | | | 096 | |
| 059 | 0896 | 0452 | 34995 | 616 | 2775 | 14838 | | | | 099 | |
| 059 | 0996 | 0422 | 34980 | 629 | 2777 | 14842 | | | | 101 | |
| 059 | 1096 | 0407 | 34983 | 634 | 2779 | 14853 | | | | 103 | |
| 059 | 1196 | 0399 | 34981 | 634 | 2779 | 14866 | | | | 104 | |
| 071 | 1270 | 0400 | 34981 | 635 | 2779 | 14879 | | | | 109 | |
| 071 | 1290 | 0397 | 34979 | 634 | 2779 | 14881 | | | | 109 | |
| 071 | 1313 | 0395 | 34976 | 637 | 2779 | 14884 | | | | 108 | |
| 071 | 1335 | 0395 | 34977 | 638 | 2779 | 14888 | | | | 106 | |
| 071 | 1357 | 0394 | 34980 | 638 | 2780 | 14891 | | | | 106 | |
| 071 | 1381 | 0393 | 34976 | 638 | 2780 | 14895 | | | | 106 | |
| 071 | 1405 | 0391 | 34976 | 638 | 2780 | 14898 | | | | 106 | |
| 071 | 1432 | 0389 | 34972 | 639 | 2780 | 14901 | | | | 106 | |
| 071 | 1459 | 0382 | 34974 | 638 | 2781 | 14903 | | | | 111 | |
| 071 | 1487 | 0381 | 34974 | 638 | 2781 | 14907 | | | | 110 | |
| 071 | 1517 | 0382 | 34973 | 637 | 2780 | 14913 | | | | 111 | |

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|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2523 | AIR T 03.5 | VIS 8 |
| CONS. NO 042 | MONTH 2 | MXSAMPD 10 | | WAVES 2 2838 | WET B 02.0 | STN |
| LAT 64-520N | DAY 06 | NO.DPTH 8 | | WND-DIR 250 | WW-CODE 03 | |
| LON 28-540W | HR 09.4 | W-COLOR | | WND-SPD 15 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 1017.0 | CLD-AMT 2 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 094 | 0011 | 0699 | 35176 | 679 | 2758 | 14794 | | | | 065 | |
| 094 | 0079 | 0700 | 35175 | 659 | 2758 | 14806 | | | | 065 | |
| 094 | 0272 | 0703 | 35173 | 660 | 2757 | 14839 | | | | 065 | |
| 094 | 0466 | 0705 | 35173 | 660 | 2757 | 14871 | | | | 065 | |
| 094 | 0662 | 0602 | 35075 | 583 | 2763 | 14862 | | | | 098 | |
| 094 | 0761 | 0529 | 35024 | 593 | 2768 | 14848 | | | | 102 | |
| 094 | 0860 | 0492 | 35023 | 597 | 2772 | 14849 | | | | 104 | |
| 094 | 0958 | 0453 | 35018 | 616 | 2776 | 14849 | | | | 104 | |

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|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2623 | AIR T 04.0 | VIS 8 |
| CONS. NO 043 | MONTH 2 | MXSAMPD | 11 | WAVES 2 28XX | WET B 01.5 | STN |
| LAT 64-407N | DAY 06 | NO.DPTH | 13 | WND-DIR 270 | WW-CODE 03 | |
| LON 28-182W | HR 11.7 | W-COLOR | | WND-SPD 16 | CLD-TPE 4 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 1018.3 | CLD-AMT 5 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 117 | 0011 | 0685 | 35160 | 661 | 2759 | 14789 | | | | | 069 | |
| 117 | 0065 | 0684 | 35159 | 661 | 2759 | 14797 | | | | | 065 | |
| 117 | 0103 | 0685 | 35159 | 664 | 2759 | 14804 | | | | | 065 | |
| 117 | 0150 | 0685 | 35162 | 662 | 2759 | 14811 | | | | | 065 | |
| 117 | 0242 | 0687 | 35160 | 664 | 2758 | 14827 | | | | | 065 | |
| 117 | 0336 | 0687 | 35160 | 666 | 2758 | 14843 | | | | | 065 | |
| 117 | 0431 | 0688 | 35158 | 662 | 2758 | 14859 | | | | | 065 | |
| 117 | 0621 | 0634 | 35099 | 587 | 2761 | 14868 | | | | | 090 | |
| 117 | 0813 | 0549 | 35069 | 589 | 2769 | 14865 | | | | | 101 | |
| 117 | 0909 | 0517 | 35051 | 595 | 2772 | 14868 | | | | | 101 | |
| 117 | 1003 | 0481 | 35038 | 608 | 2775 | 14869 | | | | | 100 | |
| 117 | 1048 | 0470 | 35027 | 609 | 2775 | 14872 | | | | | 104 | |
| 117 | 1094 | 0453 | 35017 | 614 | 2776 | 14872 | | | | | 104 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 897 | WAVES 1 2723 | AIR T 04.2 | VIS 8 |
| CONS. NO 044 | MONTH 2 | MXSAMPD 08 | WAVES 2 27XX | WET B 01.3 | STN |
| LAT 64-328N | DAY 06 | NO.DPTH 16 | WND-DIR 270 | WW-CODE 02 | |
| LON 27-450W | HR 14.7 | W-COLOR | WND-SPD 17 | CLD-TPE 0 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1021.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 147 | 0002 | 0700 | 35181 | 661 | 2758 | 14793 | | | | | 063 | |
| 147 | 0036 | 0699 | 35179 | 659 | 2758 | 14798 | | | | | 063 | |
| 147 | 0135 | 0700 | 35182 | 659 | 2758 | 14815 | | | | | 064 | |
| 147 | 0235 | 0700 | 35182 | 659 | 2758 | 14832 | | | | | 062 | |
| 156 | 0293 | 0699 | 35178 | | 2758 | 14841 | | | | | | |
| 147 | 0335 | 0700 | 35177 | 659 | 2758 | 14848 | | | | | 064 | |
| 147 | 0436 | 0698 | 35174 | 650 | 2758 | 14864 | | | | | 065 | |
| 147 | 0535 | 0689 | 35164 | 630 | 2758 | 14876 | | | | | 070 | |
| 147 | 0584 | 0679 | 35166 | 612 | 2760 | 14881 | | | | | 076 | |
| 147 | 0634 | 0653 | 35139 | 589 | 2761 | 14878 | | | | | 086 | |
| 147 | 0683 | 0633 | 35128 | 595 | 2763 | 14878 | | | | | 086 | |
| 147 | 0732 | 0604 | 35107 | 579 | 2765 | 14875 | | | | | 097 | |
| 147 | 0756 | 0589 | 35095 | 581 | 2766 | 14872 | | | | | 099 | |
| 147 | 0780 | 0575 | 35090 | 581 | 2768 | 14871 | | | | | 102 | |
| 147 | 0805 | 0548 | 35075 | 594 | 2770 | 14864 | | | | | 103 | |
| 147 | 0830 | 0510 | 35052 | 600 | 2773 | 14852 | | | | | 106 | |

| | | | | | |
|--------------|----------|------------|-------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1887 | WAVES 1 XX | AIR T -07.1 | VIS 9 |
| CONS. NO 045 | MONTH 2 | MXSAMPD 19 | WAVES 2 XX | WET B -08.3 | STN |
| LAT 61-140N | DAY 11 | NO.DPTH 26 | WNC-DIR 270 | WW-CODE 02 | |
| LON 40-267W | HR 18.6 | W-COLOR | WND-SPD 03 | CLD-TPE 0 | |
| MARSD SQ 221 | C/I 1810 | W-TRNSP | BARO 992.6 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 190 | 0000 | 0230 | 34244 | 735 | 2736 | 14585 | | | | | 072 | |
| 177 | 0052 | 0323 | 34442 | 734 | 2744 | 14637 | | | | | 064 | |
| 177 | 0102 | 0506 | 34969 | 690 | 2766 | 14729 | | | | | 082 | |
| 177 | 0152 | 0510 | 34977 | 686 | 2767 | 14739 | | | | | 089 | |
| 177 | 0201 | 0519 | 34991 | 683 | 2767 | 14751 | | | | | 092 | |
| 177 | 0301 | 0533 | 35018 | 625 | 2767 | 14773 | | | | | 089 | |
| 177 | 0401 | 0480 | 34973 | 625 | 2770 | 14768 | | | | | 090 | |
| 177 | 0501 | 0458 | 34960 | 629 | 2771 | 14775 | | | | | 091 | |
| 177 | 0600 | 0424 | 34951 | 629 | 2774 | 14777 | | | | | 104 | |
| 177 | 0699 | 0406 | 34945 | 645 | 2776 | 14786 | | | | | 096 | |
| 177 | 0796 | 0396 | 34939 | 681 | 2776 | 14798 | | | | | 092 | |
| 177 | 0895 | 0381 | 34940 | 643 | 2778 | 14808 | | | | | 098 | |
| 177 | 0993 | 0368 | 34933 | 646 | 2779 | 14819 | | | | | 098 | |
| 177 | 1092 | 0363 | 34941 | 650 | 2780 | 14833 | | | | | 099 | |
| 177 | 1190 | 0356 | 34948 | 642 | 2781 | 14847 | | | | | 100 | |
| 177 | 1287 | 0349 | 34949 | 648 | 2782 | 14860 | | | | | 101 | |
| 186 | 1377 | 0328 | 34933 | 645 | 2783 | 14866 | | | | | 101 | |
| 186 | 1482 | 0311 | 34923 | 655 | 2783 | 14876 | | | | | 099 | |
| 186 | 1584 | 0297 | 34932 | 653 | 2786 | 14888 | | | | | 107 | |
| 186 | 1687 | 0255 | 34898 | 665 | 2787 | 14886 | | | | | 091 | |
| 186 | 1738 | 0242 | 34896 | 674 | 2788 | 14889 | | | | | 093 | |
| 186 | 1762 | 0232 | 34894 | 678 | 2788 | 14889 | | | | | 085 | |
| 186 | 1787 | 0224 | 34894 | 685 | 2789 | 14890 | | | | | 086 | |
| 186 | 1812 | 0222 | 34893 | 676 | 2789 | 14893 | | | | | 092 | |
| 186 | 1836 | 0203 | 34892 | 680 | 2790 | 14889 | | | | | 091 | |
| 186 | 1861 | 0177 | 34892 | 681 | 2792 | 14882 | | | | | 083 | |

C-REF-NO 001 YR 1967 DEPTH 2340 WAVES 1 XX AIR T -05.2 VIS 8
 CONS. NO 046 MONTH 2 MXSAMPD 23 WAVES 2 XX WET B -06.5 STN
 LAT 61-050N DAY 11 NO.DPTH 27 WND-DIR WW-CODE 00
 LON 39-546W HR 23.2 W-COLOR WND-SPD CLD-TPE
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 995.5 CLD-AMT 0 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 225 | 0001 | 0352 | 34627 | 723 | 2756 | 14643 | | 086 | | | 064 | |
| 225 | 0051 | 0391 | 34717 | 722 | 2759 | 14669 | | 100 | | 128 | 064 | |
| 225 | 0101 | 0461 | 34877 | 706 | 2764 | 14709 | | 093 | | 134 | 065 | |
| 225 | 0152 | 0481 | 34916 | 701 | 2765 | 14726 | | 091 | | 130 | 070 | |
| 225 | 0201 | 0502 | 34960 | 695 | 2766 | 14744 | | 089 | | 130 | 069 | |
| 225 | 0302 | 0522 | 34998 | 689 | 2767 | 14769 | | 091 | | 136 | 070 | |
| 225 | 0402 | 0488 | 34972 | 628 | 2769 | 14771 | | 102 | | | 087 | |
| 225 | 0503 | 0439 | 34946 | 624 | 2772 | 14767 | | 103 | | | 091 | |
| 225 | 0603 | 0411 | 34935 | 631 | 2774 | 14772 | | 103 | | 147 | 092 | |
| 225 | 0702 | 0388 | 34926 | 651 | 2776 | 14778 | | 103 | | 142 | 091 | |
| 225 | 0802 | 0375 | 34923 | 655 | 2777 | 14790 | | 105 | | | 092 | |
| 225 | 0901 | 0363 | 34914 | 664 | 2778 | 14801 | | 099 | | 140 | 090 | |
| 225 | 1001 | 0358 | 34914 | 666 | 2778 | 14815 | | 097 | | 146 | 090 | |
| 225 | 1100 | 0359 | 34924 | 660 | 2779 | 14833 | | 087 | | 142 | 094 | |
| 225 | 1198 | 0360 | 34935 | 655 | 2780 | 14849 | | 099 | | 146 | 094 | |
| 225 | 1298 | 0359 | 34945 | 651 | 2781 | 14866 | | 095 | | 140 | 096 | |
| 232 | 1412 | 0352 | 34948 | 651 | 2782 | 14882 | | 094 | | | 100 | |
| 232 | 1613 | 0333 | 34952 | 649 | 2784 | 14908 | | 090 | | | 104 | |
| 232 | 1814 | 0313 | 34951 | 650 | 2786 | 14934 | | 090 | | 139 | 114 | |
| 232 | 2014 | 0240 | 34894 | 671 | 2788 | 14935 | | 075 | | | 087 | |
| 232 | 2112 | 0214 | 34891 | 677 | 2789 | 14941 | | 086 | | | 077 | |
| 232 | 2161 | 0196 | 34888 | 682 | 2791 | 14941 | | 089 | | 122 | 077 | |
| 232 | 2209 | 0163 | 34889 | 688 | 2793 | 14935 | | 085 | | 116 | 072 | |
| 232 | 2233 | 0156 | 34888 | 689 | 2794 | 14936 | | 084 | | | 070 | |
| 232 | 2258 | 0150 | 34893 | 687 | 2795 | 14938 | | 084 | | 118 | 070 | |
| 232 | 2282 | 0146 | 34893 | 692 | 2795 | 14940 | | 085 | | 114 | 070 | |
| 232 | 2306 | 0146 | 34892 | 693 | 2795 | 14944 | | 086 | | 116 | 069 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2660 | WAVES 1 99XX | AIR T -00.3 | VIS 8 |
| CONS. NO 047 | MONTH 2 | MXSAMPD 26 | WAVES 2 XX | WET B -00.6 | STN |
| LAT 60-586N | DAY 12 | NO.DPTH 29 | WND-DIR 210 | WW-CODE 02 | |
| LON 39-155W | HR 04.6 | W-COLOR | WND-SPD 03 | CLD-TPE | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 997.2 | CLD-AMT 0 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 036 | 0002 | 0488 | 34969 | 690 | 2769 | 14705 | | | | 069 | |
| 036 | 0051 | 0488 | 34968 | 689 | 2769 | 14713 | | | | 070 | |
| 051 | 0086 | 0488 | 34970 | | 2769 | 14719 | | | | | |
| 036 | 0101 | 0489 | 34969 | 691 | 2768 | 14722 | | | | 069 | |
| 036 | 0151 | 0489 | 34966 | 688 | 2768 | 14730 | | | | 072 | |
| 036 | 0201 | 0489 | 34967 | 689 | 2768 | 14738 | | | | 072 | |
| 036 | 0300 | 0490 | 34968 | 687 | 2768 | 14755 | | | | 074 | |
| 036 | 0401 | 0466 | 34954 | 642 | 2770 | 14762 | | | | 084 | |
| 036 | 0502 | 0436 | 34953 | 628 | 2773 | 14766 | | | | 087 | |
| 036 | 0601 | 0413 | 34941 | 633 | 2775 | 14772 | | | | 090 | |
| 036 | 0701 | 0391 | 34929 | 648 | 2776 | 14780 | | | | 091 | |
| 036 | 0801 | 0375 | 34911 | 659 | 2776 | 14789 | | | | 087 | |
| 036 | 0901 | 0366 | 34912 | 664 | 2777 | 14802 | | | | 089 | |
| 036 | 1001 | 0360 | 34912 | 667 | 2778 | 14816 | | | | 087 | |
| 036 | 1100 | 0356 | 34914 | 666 | 2778 | 14831 | | | | 087 | |
| 036 | 1198 | 0355 | 34922 | 665 | 2779 | 14847 | | | | 091 | |
| 036 | 1296 | 0357 | 34932 | 655 | 2780 | 14865 | | | | 093 | |
| 046 | 1511 | 0351 | 34942 | 646 | 2781 | 14898 | | | | 103 | |
| 046 | 1711 | 0342 | 34954 | 654 | 2783 | 14928 | | | | 106 | |
| 046 | 1911 | 0325 | 34957 | 652 | 2785 | 14955 | | | | 114 | |
| 046 | 2112 | 0310 | 34955 | 648 | 2786 | 14983 | | | | 120 | |
| 046 | 2310 | 0286 | 34948 | 658 | 2788 | 15006 | | | | 126 | |
| 046 | 2410 | 0235 | 34908 | 672 | 2789 | 15001 | | | | 091 | |
| 046 | 2459 | 0210 | 34898 | 678 | 2790 | 14999 | | | | 082 | |
| 046 | 2508 | 0164 | 34888 | 686 | 2793 | 14987 | | | | 070 | |
| 046 | 2532 | 0139 | 34890 | 692 | 2795 | 14980 | | | | 066 | |
| 046 | 2556 | 0130 | 34894 | 692 | 2796 | 14980 | | | | 067 | |
| 046 | 2581 | 0127 | 34895 | 695 | 2796 | 14983 | | | | 064 | |
| 046 | 2605 | 0118 | 34895 | 694 | 2797 | 14984 | | | | 067 | |

C-REF-NO 001 YR 1967 DEPTH 2876 WAVES 1 XX AIR T 01.0 VIS 7
 CONS. NO 048 MONTH 2 MXSAMPD 28 WAVES 2 XX WET B 00.0 STN
 LAT 60-470N DAY 12 NO.DPTH 28 WNC-DIR WW-CODE 68
 LON 38-318W HR 08.6 W-COLOR WND-SPD CLD-TPE X
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 998.1 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 076 | 0003 | 0480 | 34969 | 693 | 2770 | 14702 | | 093 | | 131 | 070 | |
| 076 | 0052 | 0481 | 34967 | 696 | 2769 | 14711 | | 089 | | 121 | 072 | |
| 076 | 0102 | 0475 | 34965 | 696 | 2770 | 14716 | | 100 | | 131 | 070 | |
| 076 | 0152 | 0475 | 34962 | 693 | 2770 | 14724 | | 083 | | 100 | 074 | |
| 076 | 0202 | 0476 | 34962 | 694 | 2769 | 14733 | | 092 | | | 072 | |
| 076 | 0302 | 0474 | 34960 | 691 | 2769 | 14749 | | 094 | | 130 | 075 | |
| 076 | 0402 | 0474 | 34959 | 687 | 2769 | 14765 | | 097 | | 131 | 073 | |
| 076 | 0502 | 0440 | 34945 | 633 | 2772 | 14767 | | 102 | | 164 | 086 | |
| 076 | 0601 | 0415 | 34933 | 630 | 2774 | 14773 | | 101 | | 142 | 091 | |
| 076 | 0700 | 0397 | 34929 | 645 | 2775 | 14782 | | 105 | | 142 | 090 | |
| 076 | 0799 | 0384 | 34922 | 655 | 2776 | 14793 | | 099 | | 142 | 087 | |
| 076 | 0898 | 0372 | 34913 | 659 | 2777 | 14804 | | 098 | | 142 | 087 | |
| 076 | 0996 | 0367 | 34915 | 660 | 2777 | 14818 | | 114 | | 167 | 087 | |
| 076 | 1095 | 0364 | 34919 | 660 | 2778 | 14834 | | 113 | | 135 | 087 | |
| 076 | 1194 | 0361 | 34922 | 660 | 2779 | 14849 | | 110 | | 135 | 088 | |
| 076 | 1292 | 0361 | 34929 | 656 | 2779 | 14866 | | 108 | | 138 | 089 | |
| 086 | 1452 | 0360 | 34944 | 643 | 2780 | 14892 | | 118 | | | 096 | |
| 086 | 1655 | 0349 | 34945 | 652 | 2782 | 14922 | | 115 | | 140 | 099 | |
| 086 | 1857 | 0336 | 34957 | 654 | 2784 | 14951 | | 108 | | 131 | 106 | |
| 086 | 2058 | 0321 | 34954 | 648 | 2785 | 14978 | | 113 | | 134 | 111 | |
| 086 | 2257 | 0294 | 34941 | 655 | 2787 | 15001 | | 107 | | 117 | 106 | |
| 086 | 2456 | 0261 | 34915 | 662 | 2787 | 15020 | | 105 | | | 092 | |
| 086 | 2556 | 0233 | 34899 | 671 | 2789 | 15025 | | 100 | | | 084 | |
| 086 | 2655 | 0202 | 34897 | 691 | 2791 | 15029 | | 098 | | 116 | 077 | |
| 086 | 2755 | 0145 | 34895 | 677 | 2795 | 15021 | | 097 | | 112 | 076 | |
| 086 | 2779 | 0121 | 34895 | 692 | 2797 | 15015 | | 091 | | 116 | 075 | |
| 086 | 2804 | 0118 | 34895 | 700 | 2797 | 15018 | | 092 | | 114 | 070 | |
| 086 | 2829 | 0118 | 34894 | 697 | 2797 | 15022 | | 094 | | 115 | 073 | |

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|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 0722 | AIR T 02.0 | VIS 6 |
| CONS. NO 049 | MONTH 2 | MXSAMPD 30 | | WAVES 2 1944 | WET B 02.0 | STN |
| LAT 60-282N | DAY 12 | NO.DPTH 29 | | WND-DIR 070 | WW-CODE 53 | |
| LON 37-381W | HR 14.6 | W-COLOR | | WND-SPD 12 | CLD-TPE 5 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | | BARO 995.9 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 135 | 0002 | 0559 | 34991 | 678 | 2762 | 14735 | | | | 065 | |
| 135 | 0050 | 0559 | 34991 | 681 | 2762 | 14742 | | | | 065 | |
| 135 | 0099 | 0558 | 34988 | 681 | 2762 | 14750 | | | | 064 | |
| 135 | 0148 | 0556 | 34988 | 680 | 2762 | 14757 | | | | 064 | |
| 135 | 0197 | 0555 | 34989 | 678 | 2762 | 14765 | | | | 069 | |
| 135 | 0296 | 0523 | 34963 | 681 | 2764 | 14768 | | | | 070 | |
| 135 | 0393 | 0482 | 34957 | 681 | 2768 | 14767 | | | | 084 | |
| 135 | 0490 | 0444 | 34944 | 688 | 2772 | 14767 | | | | 086 | |
| 135 | 0587 | 0426 | 34933 | 630 | 2773 | 14775 | | | | 088 | |
| 135 | 0683 | 0396 | 34919 | 644 | 2775 | 14779 | | | | 086 | |
| 135 | 0779 | 0377 | 34908 | 658 | 2776 | 14786 | | | | 084 | |
| 135 | 0875 | 0362 | 34896 | 675 | 2776 | 14796 | | | | 081 | |
| 135 | 0970 | 0360 | 34903 | 670 | 2777 | 14811 | | | | 084 | |
| 135 | 1067 | 0357 | 34903 | 672 | 2777 | 14826 | | | | 084 | |
| 135 | 1165 | 0354 | 34904 | 673 | 2778 | 14841 | | | | 085 | |
| 135 | 1263 | 0354 | 34911 | 670 | 2778 | 14858 | | | | 087 | |
| 130 | 1381 | 0358 | 34929 | | 2779 | 14879 | | | | | |
| 147 | 1558 | 0354 | 34941 | 645 | 2781 | 14908 | | | | 099 | |
| 147 | 1856 | 0339 | 34955 | 648 | 2783 | 14952 | | | | 106 | |
| 147 | 2156 | 0310 | 34955 | 647 | 2786 | 14990 | | | | 120 | |
| 147 | 2457 | 0294 | 34956 | 646 | 2788 | 15035 | | | | 130 | |
| 147 | 2657 | 0274 | 34945 | 654 | 2789 | 15061 | | | | 125 | |
| 147 | 2757 | 0243 | 34923 | 666 | 2790 | 15065 | | | | 103 | |
| 147 | 2807 | 0204 | 34898 | 681 | 2791 | 15056 | | | | 081 | |
| 147 | 2857 | 0161 | 34891 | 686 | 2794 | 15046 | | | | 071 | |
| 147 | 2882 | 0158 | 34888 | 688 | 2794 | 15049 | | | | 069 | |
| 147 | 2907 | 0149 | 34890 | 687 | 2794 | 15049 | | | | 069 | |
| 147 | 2931 | 0136 | 34893 | 693 | 2796 | 15048 | | | | 069 | |
| 147 | 2956 | 0129 | 34892 | 695 | 2796 | 15049 | | | | 072 | |

| | | | | | | |
|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 0935 | AIR T 03.6 | VIS 5 |
| CONS. NO 050 | MONTH 2 | MXSAMPD 30 | | WAVES 2 XX | WET B 03.1 | STN |
| LAT 60-156N | DAY 12 | NO.DPTH 27 | | WNC-DIR 090 | WW-CODE 61 | |
| LON 36-490W | HR 20.0 | W-COLOR | | WND-SPD 20 | CLD-TPE 5 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | | BARO 985.2 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 180 | 0001 | 0527 | 34974 | 706 | 2764 | 14721 | | 104 | | | 067 | |
| 185 | 0051 | 0491 | 34953 | 692 | 2767 | 14714 | | 100 | | 144 | 068 | |
| 185 | 0100 | 0492 | 34953 | 695 | 2767 | 14723 | | 106 | | 122 | 069 | |
| 185 | 0151 | 0492 | 34958 | 692 | 2767 | 14731 | | 097 | | 125 | 070 | |
| 185 | 0200 | 0492 | 34955 | 692 | 2767 | 14739 | | 102 | | | 069 | |
| 185 | 0300 | 0493 | 34958 | 691 | 2767 | 14756 | | 091 | | 155 | 069 | |
| 185 | 0400 | 0440 | 34922 | 660 | 2770 | 14750 | | 096 | | 159 | 075 | |
| 185 | 0498 | 0418 | 34908 | 663 | 2772 | 14757 | | 092 | | 162 | 079 | |
| 185 | 0596 | 0409 | 34926 | 637 | 2774 | 14770 | | 096 | | 136 | 086 | |
| 185 | 0692 | 0387 | 34915 | 649 | 2775 | 14776 | | 098 | | 135 | 088 | |
| 185 | 0789 | 0373 | 34908 | 660 | 2776 | 14786 | | 095 | | 133 | 086 | |
| 185 | 0885 | 0363 | 34900 | 667 | 2777 | 14798 | | 097 | | 136 | 084 | |
| 185 | 0982 | 0359 | 34901 | 670 | 2777 | 14812 | | 094 | | 131 | 084 | |
| 185 | 1079 | 0358 | 34912 | 667 | 2778 | 14828 | | 096 | | 131 | 087 | |
| 185 | 1285 | 0353 | 34918 | 668 | 2779 | 14861 | | 096 | | 131 | 089 | |
| 200 | 1492 | 0354 | 34941 | 650 | 2781 | 14896 | | 100 | | 135 | 096 | |
| 200 | 1691 | 0348 | 34951 | 647 | 2782 | 14928 | | 098 | | 156 | 101 | |
| 200 | 1890 | 0334 | 34959 | 643 | 2784 | 14955 | | 096 | | | 107 | |
| 200 | 2091 | 0324 | 34961 | 644 | 2785 | 14985 | | 096 | | 132 | 114 | |
| 200 | 2292 | 0308 | 34962 | 643 | 2787 | 15013 | | 094 | | 122 | 122 | |
| 200 | 2493 | 0297 | 34959 | 644 | 2788 | 15043 | | 096 | | | 133 | |
| 200 | 2695 | 0279 | 34949 | 649 | 2789 | 15070 | | 092 | | 128 | 128 | |
| 200 | 2897 | 0232 | 34914 | 666 | 2790 | 15084 | | 088 | | 119 | 099 | |
| 200 | 2923 | 0217 | 34903 | 675 | 2790 | 15082 | | 086 | | 145 | 089 | |
| 200 | 2948 | 0198 | 34898 | 681 | 2791 | 15078 | | 092 | | 137 | 086 | |
| 200 | 2973 | 0182 | 34895 | 691 | 2792 | 15075 | | 088 | | 140 | 083 | |
| 200 | 2998 | 0155 | 34892 | 696 | 2794 | 15068 | | 095 | | 133 | 081 | |

| | | | | | | |
|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 1633 | AIR T 05.5 | VIS 7 |
| CONS. NO 051 | MONTH 2 | MXSAMPD 30 | | WAVES 2 1739 | WET B 03.8 | STN |
| LAT 59-587N | DAY 13 | NO.DPTH 28 | | WND-DIR 140 | WW-CODE 01 | |
| LON 35-497W | HR 11.5 | W-COLOR | | WND-SPD 13 | CLD-TPE 8 | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 979.4 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 103 | 0008 | 0603 | 35010 | 692 | 2758 | 14754 | | | | 064 | |
| 103 | 0056 | 0602 | 35013 | 676 | 2758 | 14761 | | | | 064 | |
| 103 | 0106 | 0602 | 35013 | 678 | 2758 | 14769 | | | | 062 | |
| 103 | 0156 | 0569 | 34992 | 681 | 2761 | 14764 | | | | 064 | |
| 103 | 0205 | 0563 | 34990 | 685 | 2761 | 14769 | | | | 065 | |
| 103 | 0303 | 0557 | 34984 | 681 | 2762 | 14783 | | | | 068 | |
| 103 | 0402 | 0524 | 34971 | 682 | 2765 | 14786 | | | | 070 | |
| 103 | 0499 | 0496 | 34989 | 587 | 2769 | 14791 | | | | 097 | |
| 103 | 0597 | 0455 | 34974 | 599 | 2773 | 14790 | | | | 096 | |
| 103 | 0694 | 0433 | 34961 | 614 | 2774 | 14796 | | | | 095 | |
| 103 | 0792 | 0410 | 34948 | 626 | 2776 | 14803 | | | | 096 | |
| 103 | 0889 | 0393 | 34944 | 640 | 2777 | 14812 | | | | 094 | |
| 103 | 0986 | 0384 | 34943 | 646 | 2778 | 14824 | | | | 095 | |
| 103 | 1082 | 0374 | 34946 | 650 | 2779 | 14836 | | | | 096 | |
| 103 | 1179 | 0370 | 34949 | 646 | 2780 | 14851 | | | | 096 | |
| 103 | 1275 | 0365 | 34960 | 650 | 2781 | 14865 | | | | 097 | |
| 115 | 1548 | 0353 | 34972 | 640 | 2783 | 14906 | | | | 106 | |
| 115 | 1748 | 0345 | 34970 | 644 | 2784 | 14936 | | | | 108 | |
| 115 | 1949 | 0335 | 34972 | 642 | 2785 | 14966 | | | | 112 | |
| 115 | 2150 | 0325 | 34972 | 642 | 2786 | 14996 | | | | 119 | |
| 115 | 2351 | 0310 | 34958 | 649 | 2786 | 15024 | | | | 126 | |
| 115 | 2551 | 0298 | 34960 | 650 | 2788 | 15053 | | | | 127 | |
| 115 | 2749 | 0278 | 34945 | 651 | 2788 | 15078 | | | | 127 | |
| 115 | 2847 | 0260 | 34935 | 656 | 2789 | 15087 | | | | 115 | |
| 115 | 2945 | 0225 | 34914 | 667 | 2790 | 15089 | | | | 097 | |
| 115 | 2993 | 0193 | 34902 | 678 | 2792 | 15084 | | | | 087 | |
| 115 | 3017 | 0178 | 34898 | 685 | 2793 | 15081 | | | | 084 | |
| 115 | 3041 | 0153 | 34897 | 688 | 2795 | 15074 | | | | 089 | |

C-REF-NO 001 YR 1967 DEPTH 3094 WAVES 1 1434 AIR T 07.3 VIS 8
 CONS. NO 052 MONTH 2 MXSAMPD 29 WAVES 2 1758 WET B 05.7 STN
 LAT 59-434N DAY 13 NO.DPTH 28 WND-DIR 140 WW-CODE 02
 LON 35-045W HR 17.3 W-COLOR WND-SPD 14 CLD-TPE 8
 MARSD SQ 184 C/I 1810 W-TRNSP BARO 981.4 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 159 | 0005 | 0689 | 35091 | 670 | 2753 | 14788 | | 084 | | | 052 | |
| 159 | 0044 | 0689 | 35092 | 667 | 2753 | 14795 | | 088 | | | 052 | |
| 159 | 0093 | 0685 | 35091 | 666 | 2753 | 14801 | | 084 | | | 052 | |
| 159 | 0142 | 0681 | 35088 | 665 | 2753 | 14808 | | 085 | | | 053 | |
| 159 | 0192 | 0682 | 35088 | 663 | 2753 | 14816 | | 094 | | | 053 | |
| 159 | 0291 | 0680 | 35085 | 663 | 2753 | 14832 | | 086 | | | 055 | |
| 159 | 0390 | 0669 | 35073 | 663 | 2754 | 14843 | | 086 | | | 057 | |
| 159 | 0489 | 0620 | 35020 | 644 | 2756 | 14840 | | 096 | | | 067 | |
| 159 | 0589 | 0535 | 34989 | 589 | 2765 | 14821 | | 109 | | | 089 | |
| 159 | 0688 | 0475 | 34959 | 618 | 2769 | 14813 | | 110 | | | 087 | |
| 159 | 0787 | 0442 | 34953 | 616 | 2773 | 14816 | | 107 | | | 089 | |
| 159 | 0887 | 0416 | 34940 | 628 | 2774 | 14821 | | 102 | | | 089 | |
| 159 | 0986 | 0388 | 34914 | 653 | 2775 | 14826 | | 103 | | | 084 | |
| 159 | 1083 | 0372 | 34905 | 664 | 2776 | 14835 | | 098 | | | 082 | |
| 159 | 1181 | 0363 | 34905 | 670 | 2777 | 14847 | | 099 | | | 082 | |
| 159 | 1277 | 0358 | 34905 | 670 | 2778 | 14861 | | 095 | | | 084 | |
| 173 | 1282 | 0360 | 34903 | 667 | 2777 | 14863 | | 100 | | 170 | 086 | |
| 173 | 1470 | 0357 | 34912 | 666 | 2778 | 14894 | | 100 | | 154 | 088 | |
| 173 | 1662 | 0354 | 34933 | 651 | 2780 | 14925 | | 095 | | 150 | 099 | |
| 173 | 1857 | 0349 | 34947 | 645 | 2782 | 14956 | | 103 | | 145 | 103 | |
| 173 | 2152 | 0332 | 34955 | 645 | 2784 | 14999 | | 104 | | 155 | 110 | |
| 173 | 2451 | 0313 | 34955 | 645 | 2786 | 15042 | | 100 | | 147 | 118 | |
| 173 | 2652 | | 34958 | 644 | | | | 094 | | | 127 | |
| 173 | 2752 | 0295 | 34956 | 645 | 2788 | 15086 | | 097 | | 145 | 128 | |
| 173 | 2851 | 0290 | 34954 | 649 | 2788 | 15101 | | 094 | | 150 | 126 | |
| 173 | 2901 | 0285 | | | | | | | | | | |
| 173 | 2926 | 0281 | 34950 | 652 | 2788 | 15110 | | 096 | | 150 | 125 | |
| 173 | 2950 | 0275 | 34945 | 653 | 2789 | 15112 | | 094 | | | 122 | |

| | | | | | | |
|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 1722 | AIR T 06.8 | VIS 8 |
| CONS. NO 053 | MONTH 2 | MXSAMPD | 24 | WAVES 2 4949 | WET B 04.4 | STN |
| LAT 59-309N | DAY 14 | NO.DPTH | 28 | WND-DIR 170 | WW-CODE 02 | |
| LON 34-115W | HR 06.6 | W-COLOR | | WND-SPD 07 | CLD-TPE X | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 976.4 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 053 | 0003 | 0651 | 35068 | 675 | 2756 | 14773 | | 076 | | 102 | 057 | |
| 053 | 0052 | 0651 | 35068 | 668 | 2756 | 14781 | | 078 | | 116 | 056 | |
| 053 | 0102 | 0652 | 35068 | 668 | 2756 | 14789 | | 079 | | | 056 | |
| 053 | 0152 | 0651 | 35066 | 666 | 2756 | 14797 | | 070 | | 98 | 058 | |
| 053 | 0201 | 0652 | 35067 | 666 | 2756 | 14805 | | 069 | | 102 | 058 | |
| 053 | 0301 | 0651 | 35063 | 662 | 2756 | 14821 | | 069 | | 107 | 058 | |
| 053 | 0400 | 0597 | 35054 | 574 | 2762 | 14816 | | 090 | | 133 | 087 | |
| 053 | 0499 | 0518 | 35001 | 593 | 2768 | 14800 | | 093 | | 151 | 089 | |
| 053 | 0599 | 0471 | 34976 | 598 | 2771 | 14797 | | 086 | | 128 | 094 | |
| 053 | 0698 | 0432 | 34960 | 617 | 2774 | 14797 | | 083 | | 124 | 094 | |
| 053 | 0797 | 0415 | 34962 | 624 | 2776 | 14806 | | 098 | | 129 | 092 | |
| 053 | 0897 | | 34932 | 640 | | | | 093 | | 124 | 091 | |
| 053 | 0996 | 0368 | 34929 | 659 | 2778 | 14819 | | 104 | | 141 | 087 | |
| 053 | 1096 | 0355 | 34914 | 665 | 2779 | 14830 | | 093 | | 125 | 089 | |
| 053 | 1195 | 0360 | 34933 | 654 | 2780 | 14849 | | 099 | | 125 | 090 | |
| 053 | 1292 | 0363 | 34945 | 649 | 2780 | 14867 | | 090 | | 123 | 094 | |
| 066 | 1476 | 0359 | 34952 | 648 | 2781 | 14896 | | 084 | | 115 | 099 | |
| 066 | 1574 | 0353 | 34956 | 641 | 2782 | 14910 | | 102 | | 148 | 099 | |
| 066 | 1672 | 0347 | 34951 | 642 | 2782 | 14924 | | 103 | | 148 | 102 | |
| 066 | 1770 | 0341 | 34963 | 622 | 2784 | 14938 | | 098 | | 146 | 105 | |
| 066 | 1868 | 0337 | 34962 | 639 | 2784 | 14953 | | 102 | | 148 | 106 | |
| 066 | 1966 | 0333 | 34964 | 646 | 2785 | 14968 | | 101 | | | 108 | |
| 066 | 2065 | 0328 | 34964 | 644 | 2785 | 14983 | | 096 | | 136 | 111 | |
| 066 | 2163 | 0322 | 34964 | 642 | 2786 | 14997 | | 101 | | 150 | 115 | |
| 066 | 2262 | 0317 | 34964 | 644 | 2786 | 15012 | | 099 | | | 118 | |
| 066 | 2361 | 0313 | 34964 | 640 | 2787 | 15027 | | 097 | | 148 | 121 | |
| 066 | 2412 | 0312 | 34965 | 646 | 2787 | 15035 | | 086 | | 131 | 121 | |
| 066 | 2436 | 0309 | 34963 | 645 | 2787 | 15038 | | 096 | | 151 | 125 | |

C-REF-NO 001 YR 1967 DEPTH WAVES 1 1222 AIR T 05.0 VIS 8
 CONS. NO 054 MONTH 2 MXSAMPD 25 WAVES 2 49XX WET B 03.5 STN
 LAT 59-151N DAY 14 NO.DPTH 26 WND-DIR 200 WW-CODE 01
 LON 33-183W HR 12.3 W-COLOR WND-SPD 09 CLD-TPE 6
 MARSD SQ 184 C/I 1810 W-TRNSP BARO 976.4 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 113 | 0001 | 0652 | 35068 | 678 | 2756 | 14773 | | | | 057 | |
| 113 | 0050 | 0653 | 35065 | 669 | 2756 | 14781 | | | | 057 | |
| 113 | 0100 | 0649 | 35056 | 668 | 2755 | 14788 | | | | 056 | |
| 113 | 0151 | 0628 | 35039 | 672 | 2757 | 14787 | | | | 056 | |
| 113 | 0200 | 0615 | | | | | | | | | |
| 113 | 0301 | 0592 | 35003 | 668 | 2759 | 14797 | | | | 063 | |
| 113 | 0402 | 0554 | 34976 | 631 | 2761 | 14798 | | | | 076 | |
| 113 | 0502 | 0493 | 34948 | 662 | 2766 | 14789 | | | | 074 | |
| 113 | 0602 | 0468 | 34954 | 618 | 2770 | 14796 | | | | 088 | |
| 113 | 0701 | 0435 | 34931 | 640 | 2772 | 14798 | | | | 087 | |
| 113 | 0799 | 0420 | 34934 | 630 | 2773 | 14808 | | | | 089 | |
| 113 | 0898 | 0394 | 34919 | 645 | 2775 | 14813 | | | | 087 | |
| 113 | 0997 | 0377 | 34911 | 658 | 2776 | 14823 | | | | 083 | |
| 113 | 1096 | 0376 | 34923 | 656 | 2777 | 14839 | | | | 086 | |
| 113 | 1196 | 0366 | 34916 | 658 | 2778 | 14851 | | | | 087 | |
| 113 | 1296 | 0363 | 34927 | 656 | 2779 | 14867 | | | | 089 | |
| 123 | 1465 | 0363 | 34940 | 644 | 2780 | 14896 | | | | 100 | |
| 123 | 1568 | 0360 | 34952 | 646 | 2781 | 14912 | | | | 100 | |
| 123 | 1670 | 0356 | 34959 | 645 | 2782 | 14928 | | | | 101 | |
| 123 | 1773 | 0353 | 34962 | 644 | 2783 | 14944 | | | | 103 | |
| 123 | 1876 | 0347 | 34966 | 645 | 2783 | 14959 | | | | 108 | |
| 123 | 2080 | 0339 | 34966 | 644 | 2784 | 14990 | | | | 112 | |
| 123 | 2181 | 0336 | 34970 | 643 | 2785 | 15006 | | | | 116 | |
| 123 | 2282 | 0330 | 34969 | 644 | 2785 | 15021 | | | | 118 | |
| 123 | 2379 | 0324 | 34968 | 640 | 2786 | 15035 | | | | 120 | |
| 123 | 2475 | 0319 | 34968 | 642 | 2786 | 15049 | | | | 123 | |

| | | | | | | |
|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 1622 | AIR T 04.2 | VIS 8 |
| CONS. NO 055 | MONTH 2 | MXSAMPD | 21 | WAVES 2 4958 | WET B 02.4 | STN |
| LAT 59-064N | DAY 14 | NO.DPTH | 29 | WND-DIR 160 | WW-CODE 02 | |
| LOX 32-470W | HR 18.2 | W-COLOR | | WND-SPD 08 | CLO-TPE 6 | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 978.4 | CLO-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 170 | 0006 | 0675 | 35080 | 667 | 2754 | 14783 | | 069 | | 89 | 052 | |
| 170 | 0055 | 0677 | 35082 | 670 | 2754 | 14792 | | 075 | | 88 | 053 | |
| 170 | 0105 | 0678 | 35080 | 665 | 2753 | 14800 | | 073 | | 111 | 053 | |
| 170 | 0156 | 0679 | 35086 | 662 | 2754 | 14809 | | | | | 053 | |
| 170 | 0205 | 0679 | 35080 | 671 | 2753 | 14817 | | 075 | | 89 | 051 | |
| 160 | 0301 | 0682 | 35084 | | 2753 | 14834 | | | | | | |
| 170 | 0305 | 0679 | 35079 | 648 | 2753 | 14833 | | 087 | | | 052 | |
| 170 | 0405 | 0679 | 35080 | 668 | 2753 | 14850 | | 085 | | 96 | 050 | |
| 170 | 0505 | 0671 | 35067 | 665 | 2753 | 14863 | | 078 | | 114 | 051 | |
| 170 | 0605 | 0610 | 35036 | 603 | 2759 | 14855 | | 091 | | 134 | 077 | |
| 170 | 0705 | 0519 | 34992 | 593 | 2767 | 14834 | | 093 | | 123 | 092 | |
| 170 | 0805 | 0469 | 34967 | 604 | 2771 | 14830 | | 099 | | 131 | 091 | |
| 170 | 0904 | 0440 | 34960 | 618 | 2773 | 14834 | | 108 | | 154 | 088 | |
| 170 | 1004 | 0411 | 34940 | 629 | 2775 | 14839 | | 095 | | 114 | 086 | |
| 170 | 1103 | 0386 | 34921 | 660 | 2776 | 14844 | | 090 | | 120 | 083 | |
| 170 | 1202 | 0380 | 34932 | 650 | 2777 | 14859 | | 097 | | 125 | 086 | |
| 170 | 1302 | 0374 | 34935 | 655 | 2778 | 14873 | | 097 | | | 085 | |
| 182 | 1495 | 0373 | 34958 | 640 | 2780 | 14905 | | 103 | | 143 | 096 | |
| 182 | 1599 | 0370 | 34960 | 640 | 2781 | 14921 | | 101 | | 148 | 094 | |
| 182 | 1701 | 0365 | 34963 | 641 | 2781 | 14937 | | 097 | | 143 | 094 | |
| 182 | 1803 | 0362 | 34964 | 642 | 2782 | 14953 | | 103 | | 146 | 098 | |
| 182 | 1854 | 0361 | 34964 | 642 | 2782 | 14961 | | 098 | | 145 | 097 | |
| 182 | 1904 | 0358 | 34962 | 642 | 2782 | 14968 | | 108 | | 139 | 101 | |
| 182 | 1954 | 0356 | 34966 | 643 | 2783 | 14976 | | 101 | | 143 | 100 | |
| 182 | 2002 | 0353 | 34967 | 642 | 2783 | 14983 | | 101 | | 143 | 101 | |
| 182 | 2027 | | 34970 | 643 | | | | | | | 103 | |
| 182 | 2051 | 0346 | 34969 | 640 | 2784 | 14988 | | 078 | | 97 | 103 | |
| 182 | 2075 | 0347 | 34969 | 642 | 2784 | 14993 | | 076 | | 101 | 104 | |
| 182 | 2099 | 0346 | 34965 | 644 | 2783 | 14996 | | 104 | | 136 | 109 | |

| | | | | | | |
|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 1822 | AIR T 04.2 | VIS 8 |
| CONS. NO 056 | MONTH 2 | MXSAMPD 13 | | WAVES 2 49XX | WET B 03.0 | STN |
| LAT 58-503N | DAY 14 | NO.DPTH 24 | | WNC-DIR 180 | WW-CODE 01 | |
| LON 32-125W | HR 23.1 | W-COLOR | | WNC-SPD 09 | CLD-TPE X | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 978.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 223 | 0001 | 0658 | 35070 | 675 | 2755 | 14775 | | | | 055 | |
| 223 | 0050 | 0659 | 35067 | 673 | 2755 | 14783 | | | | 057 | |
| 223 | 0100 | 0660 | 35065 | 670 | 2755 | 14792 | | | | 056 | |
| 223 | 0150 | 0660 | 35065 | 672 | 2755 | 14800 | | | | 057 | |
| 223 | 0199 | 0660 | 35067 | 671 | 2755 | 14808 | | | | 058 | |
| 223 | 0300 | 0659 | 35068 | 670 | 2755 | 14825 | | | | 057 | |
| 223 | 0399 | 0606 | 35012 | 639 | 2758 | 14819 | | | | 069 | |
| 223 | 0498 | 0558 | 35017 | 582 | 2764 | 14816 | | | | 088 | |
| 223 | 0598 | 0506 | 34985 | 597 | 2768 | 14811 | | | | 089 | |
| 223 | 0698 | 0446 | 34952 | 620 | 2772 | 14802 | | | | 090 | |
| 223 | 0747 | 0443 | 34967 | 617 | 2774 | 14809 | | | | 093 | |
| 223 | 0772 | 0454 | 34989 | 616 | 2774 | 14818 | | | | 091 | |
| 223 | 0797 | 0451 | | | | | | | | | |
| 223 | 0823 | 0442 | 34984 | 625 | 2775 | 14822 | | | | 092 | |
| 231 | 0825 | 0441 | 34979 | 622 | 2775 | 14822 | | | | 092 | |
| 223 | 0849 | 0427 | 34975 | 626 | 2776 | 14820 | | | | 094 | |
| 223 | 0899 | 0404 | 34945 | 637 | 2776 | 14818 | | | | 091 | |
| 231 | 0926 | 0394 | 34930 | 644 | 2776 | 14818 | | | | 092 | |
| 231 | 1029 | 0375 | 34917 | 656 | 2777 | 14827 | | | | 089 | |
| 231 | 1131 | 0365 | 34918 | 663 | 2778 | 14840 | | | | 088 | |
| 231 | 1181 | 0364 | 34919 | 663 | 2778 | 14848 | | | | 087 | |
| 231 | 1230 | 0362 | 34917 | 664 | 2778 | 14855 | | | | 088 | |
| 231 | 1280 | 0364 | 34925 | 663 | 2779 | 14865 | | | | 089 | |
| 231 | 1328 | 0371 | 34945 | 654 | 2779 | 14876 | | | | 090 | |

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|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 1621 | AIR T 04.1 | VIS 8 |
| CONS. NO 057 | MONTH 2 | MXSAMPD 14 | | WAVES 2 56 | WET B 00.8 | STN |
| LAT 58-451N | DAY 15 | NO.DPTH 17 | | WND-DIR 160 | WW-CODE 02 | |
| LON 31-354W | HR 02.3 | W-COLOR | | WND-SPD 07 | CLD-TPE 6 | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 979.5 | CLD-APT 8 | Hh |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 023 | 0002 | 0668 | 35081 | 676 | 2755 | 14779 | | 082 | | | 057 | |
| 023 | 0041 | 0670 | 35081 | 671 | 2754 | 14787 | | 084 | | | 065 | |
| 023 | 0116 | 0672 | 35081 | 671 | 2754 | 14800 | | 093 | | | 060 | |
| 023 | 0216 | 0672 | 35080 | 670 | 2754 | 14816 | | 089 | | | 066 | |
| 023 | 0317 | 0670 | 35079 | 669 | 2754 | 14832 | | 092 | | | 060 | |
| 023 | 0417 | 0666 | 35078 | 664 | 2755 | 14847 | | 084 | | | 065 | |
| 023 | 0517 | 0603 | 35032 | 541 | 2759 | 14838 | | 098 | | | 089 | |
| 023 | 0617 | 0562 | 35032 | 573 | 2765 | 14838 | | 101 | | | 099 | |
| 023 | 0716 | 0532 | 35058 | 587 | 2770 | 14842 | | 102 | | | 097 | |
| 023 | 0814 | 0465 | 35008 | 614 | 2774 | 14830 | | 104 | | | 095 | |
| 023 | 0911 | 0440 | 35018 | 629 | 2778 | 14836 | | 095 | | | 094 | |
| 023 | 1009 | 0411 | 35009 | 634 | 2780 | 14840 | | 102 | | | 091 | |
| 023 | 1106 | 0401 | 35012 | 642 | 2782 | 14852 | | 112 | | | 094 | |
| 023 | 1203 | 0396 | 35010 | 643 | 2782 | 14866 | | 106 | | | 091 | |
| 023 | 1253 | 0392 | 35012 | 645 | 2783 | 14873 | | 105 | | | 091 | |
| 023 | 1302 | 0391 | 35012 | 643 | 2783 | 14881 | | 105 | | | 096 | |
| 023 | 1352 | 0392 | 35010 | 642 | 2782 | 14890 | | 106 | | | 096 | |

| | | | | | | |
|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2537 | AIR T 05.5 | VIS 8 |
| CONS. NO 058 | MONTH 2 | MXSAMPD 15 | | WAVES 2 XX | WET B 04.5 | STN |
| LAT 58-354N | DAY 17 | NO.DPTH 17 | | WND-DIR 250 | WW-CODE 02 | |
| LON 31-045W | HR 17.9 | W-COLOR | | WND-SPD 16 | CLD-TPE 8 | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 969.5 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 179 | 0004 | 0755 | 35165 | 656 | 2749 | 14815 | | | | 057 | |
| 173 | 0072 | 0755 | 35165 | 650 | 2749 | 14826 | | | | 057 | |
| 173 | 0171 | 0758 | 35170 | 645 | 2749 | 14843 | | | | 060 | |
| 173 | 0271 | 0765 | 35187 | 644 | 2749 | 14863 | | | | 060 | |
| 173 | 0370 | 0763 | 35196 | 619 | 2750 | 14878 | | | | 064 | |
| 173 | 0471 | 0722 | 35159 | 574 | 2753 | 14879 | | | | 084 | |
| 173 | 0570 | 0652 | 35105 | 539 | 2759 | 14867 | | | | 099 | |
| 173 | 0670 | 0591 | 35079 | 550 | 2765 | 14859 | | | | 102 | |
| 173 | 0769 | 0545 | 35070 | 566 | 2770 | 14856 | | | | 099 | |
| 173 | 0869 | 0484 | 35020 | 602 | 2773 | 14847 | | | | 098 | |
| 173 | 0969 | 0442 | 34992 | 622 | 2776 | 14846 | | | | 099 | |
| 173 | 1069 | 0422 | 34986 | 631 | 2777 | 14855 | | | | 095 | |
| 173 | 1168 | 0399 | 34981 | 640 | 2779 | 14861 | | | | 094 | |
| 173 | 1266 | 0388 | 34997 | 644 | 2782 | 14874 | | | | 096 | |
| 173 | 1365 | 0379 | 35004 | 643 | 2783 | 14886 | | | | 096 | |
| 173 | 1413 | 0379 | 35013 | 643 | 2784 | 14895 | | | | 096 | |
| 173 | 1462 | 0379 | 35006 | 643 | 2783 | 14903 | | | | 094 | |

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|--------------|----------|------------|--|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2437 | AIR T 04.0 | VIS 7 |
| CONS. NO 059 | MONTH 2 | MXSAMPD 17 | | WAVES 2 XX | WET B 03.5 | STN |
| LAT 58-279N | DAY 17 | NO.DPTH 20 | | WND-DIR 240 | WW-CODE 80 | |
| LON 30-335W | HR 21.7 | W-COLOR | | WND-SPD 12 | CLD-TPE 8 | |
| MARSD SQ 184 | C/I 1810 | W-TRNSP | | BARO 970.0 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 217 | 0002 | 0757 | 35181 | 654 | 2750 | 14815 | | | | 057 | |
| 217 | 0051 | 0758 | 35182 | 650 | 2750 | 14824 | | | | 064 | |
| 217 | 0101 | 0760 | 35187 | 649 | 2750 | 14833 | | | | 063 | |
| 217 | 0151 | 0763 | 35202 | 647 | 2751 | 14842 | | | | 060 | |
| 205 | 0204 | 0759 | 35205 | | 2752 | 14850 | | | | | |
| 217 | 0252 | 0758 | 35203 | 650 | 2752 | 14857 | | | | 059 | |
| 217 | 0352 | 0757 | 35202 | 653 | 2752 | 14873 | | | | 060 | |
| 217 | 0452 | 0758 | 35203 | 652 | 2752 | 14890 | | | | 059 | |
| 217 | 0552 | 0755 | 35198 | 639 | 2752 | 14905 | | | | 061 | |
| 217 | 0652 | 0669 | 35141 | 551 | 2759 | 14888 | | | | 099 | |
| 217 | 0752 | 0587 | 35102 | 565 | 2767 | 14871 | | | | 101 | |
| 217 | 0951 | 0448 | 34980 | 602 | 2774 | 14846 | | | | 111 | |
| 217 | 1150 | 0392 | 34945 | 641 | 2777 | 14855 | | | | 104 | |
| 217 | 1250 | 0383 | 34961 | 645 | 2779 | 14868 | | | | 101 | |
| 217 | 1349 | 0374 | 34978 | 645 | 2782 | 14881 | | | | 103 | |
| 217 | 1449 | 0374 | 34992 | 645 | 2783 | 14898 | | | | 100 | |
| 217 | 1500 | 0376 | 34991 | 644 | 2783 | 14908 | | | | 101 | |
| 217 | 1551 | 0371 | 34990 | 644 | 2783 | 14914 | | | | 101 | |
| 217 | 1602 | 0369 | 34988 | 645 | 2783 | 14922 | | | | 104 | |
| 217 | 1652 | 0368 | 34992 | 645 | 2783 | 14930 | | | | 104 | |

C-REF-NO 001 YR 1967 DEPTH 2505 WAVES 1 2022 AIR T 04.5 VIS 7
 CONS. NO 060 MONTH 2 MXSAMPD 25 WAVES 2 XX WET B 02.8 STN
 LAT 58-141N DAY 18 NO.DPTH 28 WND-DIR 200 WW-CODE 02
 LON 29-541W HR 00.7 W-COLOR WND-SPD 10 CLD-TPE 8
 MARSD SQ 183 C/I 1810 W-TRNSP BARO 968.5 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 018 | 0001 | 0762 | 35176 | 655 | 2749 | 14817 | | | | | 061 | |
| 018 | 0050 | 0763 | 35176 | 650 | 2749 | 14826 | | | | | 063 | |
| 018 | 0100 | 0764 | 35174 | 653 | 2748 | 14834 | | | | | 060 | |
| 018 | 0199 | 0765 | 35179 | 655 | 2749 | 14851 | | | | | 060 | |
| 018 | 0299 | 0763 | 35203 | 650 | 2751 | 14867 | | | | | 062 | |
| 018 | 0398 | 0759 | 35203 | 651 | 2751 | 14882 | | | | | 061 | |
| 018 | 0498 | 0762 | 35213 | 653 | 2752 | 14899 | | | | | 062 | |
| 018 | 0597 | 0711 | 35162 | 583 | 2755 | 14895 | | | | | 087 | |
| 018 | 0697 | 0651 | 35130 | 554 | 2761 | 14888 | | | | | 101 | |
| 018 | 0797 | 0580 | 35090 | 567 | 2767 | 14875 | | | | | 102 | |
| 018 | 0897 | 0525 | 35050 | 589 | 2771 | 14869 | | | | | 100 | |
| 018 | 0997 | 0475 | 35019 | 612 | 2774 | 14865 | | | | | 102 | |
| 018 | 1097 | 0449 | 35001 | 625 | 2776 | 14871 | | | | | 099 | |
| 018 | 1197 | 0410 | 34980 | 639 | 2778 | 14871 | | | | | 098 | |
| 018 | 1296 | 0400 | 34991 | 641 | 2780 | 14883 | | | | | 096 | |
| 018 | 1395 | 0381 | 34990 | 643 | 2782 | 14892 | | | | | 099 | |
| 007 | 1465 | 0364 | 34992 | 642 | 2784 | 14897 | | | | | 099 | |
| 007 | 1566 | 0339 | 34998 | 651 | 2787 | 14903 | | | | | 104 | |
| 007 | 1667 | 0327 | 35005 | 649 | 2789 | 14915 | | | | | 105 | |
| 007 | 1769 | 0321 | 35005 | 650 | 2789 | 14930 | | | | | 106 | |
| 007 | 1869 | 0313 | 35004 | 651 | 2790 | 14944 | | | | | 107 | |
| 007 | 1970 | 0308 | 35005 | 654 | 2790 | 14959 | | | | | 108 | |
| 007 | 2071 | 0301 | 35005 | 654 | 2791 | 14973 | | | | | 109 | |
| 007 | 2171 | 0294 | 35004 | 654 | 2792 | 14987 | | | | | 111 | |
| 007 | 2270 | 0291 | 35002 | 653 | 2792 | 15002 | | | | | 109 | |
| 007 | 2368 | 0287 | 35001 | 655 | 2792 | 15018 | | | | | 109 | |
| 007 | 2417 | 0287 | 35005 | 656 | 2792 | 15026 | | | | | 110 | |
| 007 | 2465 | 0290 | 35006 | 652 | 2792 | 15035 | | | | | 111 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2255 | WAVES 1 4921 | AIR T 03.9 | VIS 8 |
| CONS. NO 061 | MONTH 2 | MXSAMPD 22 | WAVES 2 4943 | WET B 01.7 | STN |
| LAT 58-055N | DAY 18 | NO.DPTH 28 | WND-DIR 070 | WW-CODE 02 | |
| LON 29-261W | HR 04.3 | W-COLOR | WND-SPD 07 | CLD-TPE | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | BARO 964.9 | CLD-AMT 0 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 053 | 0001 | 0770 | 35150 | 647 | 2746 | 14820 | | | | | 062 | |
| 053 | 0050 | 0772 | 35149 | 649 | 2745 | 14829 | | | | | 061 | |
| 053 | 0100 | 0769 | 35150 | 649 | 2746 | 14836 | | | | | 060 | |
| 053 | 0150 | 0766 | 35160 | 648 | 2747 | 14843 | | | | | 060 | |
| 053 | 0200 | 0766 | 35169 | 649 | 2748 | 14851 | | | | | 062 | |
| 053 | 0301 | 0781 | 35217 | 641 | 2749 | 14874 | | | | | 059 | |
| 053 | 0401 | 0769 | 35199 | 649 | 2750 | 14886 | | | | | 060 | |
| 053 | 0501 | 0759 | 35198 | 621 | 2751 | 14898 | | | | | 069 | |
| 053 | 0601 | 0688 | 35158 | 607 | 2758 | 14887 | | | | | 093 | |
| 053 | 0701 | 0578 | 35071 | 552 | 2766 | 14858 | | | | | 110 | |
| 053 | 0800 | 0494 | 34992 | 573 | 2770 | 14840 | | | | | 111 | |
| 053 | 0899 | 0458 | 34983 | 547 | 2773 | 14841 | | | | | 106 | |
| 053 | 0999 | 0409 | 34941 | 626 | 2775 | 14837 | | | | | 104 | |
| 053 | 1098 | 0390 | 34931 | 640 | 2776 | 14845 | | | | | 104 | |
| 053 | 1198 | 0375 | 34926 | 649 | 2777 | 14856 | | | | | 104 | |
| 053 | 1297 | 0373 | 34925 | 650 | 2778 | 14871 | | | | | 103 | |
| 043 | 1414 | 0369 | 34943 | 647 | 2779 | 14890 | | | | | 105 | |
| 043 | 1515 | 0365 | 34952 | 648 | 2781 | 14905 | | | | | 106 | |
| 043 | 1616 | 0356 | 34960 | 648 | 2782 | 14918 | | | | | 110 | |
| 043 | 1718 | 0348 | 34970 | 646 | 2784 | 14932 | | | | | 110 | |
| 043 | 1818 | 0330 | 34985 | 647 | 2787 | 14942 | | | | | 117 | |
| 043 | 1918 | 0311 | 34996 | 648 | 2789 | 14951 | | | | | 118 | |
| 043 | 2018 | 0287 | 34997 | 649 | 2792 | 14958 | | | | | 118 | |
| 043 | 2068 | 0282 | 34997 | 651 | 2792 | 14964 | | | | | 114 | |
| 043 | 2117 | 0274 | 34997 | 654 | 2793 | 14969 | | | | | 110 | |
| 043 | 2166 | 0272 | 35000 | 654 | 2793 | 14977 | | | | | 108 | |
| 043 | 2191 | 0271 | 35002 | 654 | 2793 | 14980 | | | | | 110 | |
| 043 | 2215 | 0272 | 35001 | 655 | 2793 | 14985 | | | | | 112 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2388 | WAVES 1 0420 | AIR T 06.9 | VIS 8 |
| CONS. NO 062 | MONTH 2 | MXSAMPD 23 | WAVES 2 4947 | WET B 05.9 | STN |
| LAT 57-569N | DAY 18 | NO-DPTH 28 | WND-DIR 040 | WW-CODE 02 | |
| LON 28-536W | HR 09.5 | W-COLOR | WND-SPD 02 | CLD-TPE 8 | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | BARO 963.3 | CLD-AMT 2 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 104 | 0002 | 0764 | 35111 | 655 | 2743 | 14817 | | | | 060 | |
| 104 | 0051 | 0765 | 35110 | 648 | 2743 | 14826 | | | | 058 | |
| 104 | 0100 | 0766 | 35111 | 650 | 2743 | 14834 | | | | 058 | |
| 104 | 0199 | 0754 | 35120 | 622 | 2746 | 14846 | | | | 067 | |
| 104 | 0298 | 0695 | 35080 | 553 | 2751 | 14839 | | | | 091 | |
| 104 | 0395 | 0624 | 35052 | 529 | 2758 | 14826 | | | | 105 | |
| 104 | 0494 | 0563 | 35031 | 539 | 2764 | 14818 | | | | 108 | |
| 104 | 0592 | 0503 | 35008 | 571 | 2770 | 14809 | | | | 108 | |
| 104 | 0690 | 0451 | 34968 | 596 | 2773 | 14803 | | | | 106 | |
| 104 | 0789 | 0418 | 34942 | 618 | 2774 | 14806 | | | | 103 | |
| 104 | 0887 | 0400 | 34930 | 633 | 2775 | 14814 | | | | 101 | |
| 104 | 0985 | 0384 | 34924 | 646 | 2776 | 14824 | | | | 102 | |
| 104 | 1082 | 0372 | 34926 | 654 | 2778 | 14835 | | | | 100 | |
| 104 | 1178 | 0365 | 34916 | 658 | 2778 | 14848 | | | | 102 | |
| 104 | 1272 | 0360 | 34920 | 660 | 2779 | 14862 | | | | 102 | |
| 104 | 1363 | 0358 | 34920 | 660 | 2779 | 14876 | | | | 104 | |
| 095 | 1454 | 0355 | 34929 | 653 | 2780 | 14890 | | | | 108 | |
| 095 | 1554 | 0352 | 34934 | 653 | 2780 | 14906 | | | | 109 | |
| 095 | 1655 | 0348 | 34945 | 649 | 2782 | 14921 | | | | 114 | |
| 095 | 1755 | 0343 | 34961 | 645 | 2783 | 14936 | | | | 113 | |
| 095 | 1856 | 0336 | 34976 | 644 | 2785 | 14951 | | | | 118 | |
| 095 | 1955 | 0316 | 34987 | 646 | 2788 | 14959 | | | | 127 | |
| 095 | 2055 | 0290 | 34993 | 652 | 2791 | 14965 | | | | 128 | |
| 095 | 2153 | 0279 | 34999 | 651 | 2793 | 14977 | | | | 120 | |
| 095 | 2203 | 0275 | 34998 | 650 | 2793 | 14984 | | | | 123 | |
| 095 | 2252 | 0274 | 34999 | 654 | 2793 | 14992 | | | | 118 | |
| 095 | 2301 | 0271 | 34998 | 653 | 2793 | 14999 | | | | 116 | |
| 095 | 2350 | 0271 | 34999 | | 2793 | 15008 | | | | 116 | |

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|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2649 | AIR T 02.2 | VIS 8 |
| CONS. NO 063 | MONTH 2 | MXSAMPD | 23 | WAVES 2 XX | WET B 01.5 | STN |
| LAT 57-451N | DAY 20 | NO.DPTH | 28 | WND-DIR 260 | WW-CODE 02 | |
| LON 28-040W | HR 16.0 | W-COLOR | | WND-SPD 20 | CLD-TPE 6 | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | | BARO 974.4 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 146 | 0001 | 0809 | 35143 | 655 | 2739 | 14835 | | | | 057 | |
| 146 | 0047 | 0810 | 35142 | 644 | 2739 | 14843 | | | | 059 | |
| 146 | 0094 | 0805 | 35137 | 644 | 2739 | 14848 | | | | 057 | |
| 146 | 0142 | 0800 | 35138 | 644 | 2740 | 14854 | | | | 060 | |
| 146 | 0190 | 0790 | 35144 | 648 | 2742 | 14859 | | | | 060 | |
| 146 | 0285 | 0784 | 35160 | 653 | 2744 | 14872 | | | | 060 | |
| 146 | 0381 | 0777 | 35157 | 629 | 2745 | 14885 | | | | 065 | |
| 146 | 0477 | 0742 | 35135 | 593 | 2749 | 14887 | | | | 080 | |
| 146 | 0574 | 0680 | 35095 | 544 | 2754 | 14878 | | | | 101 | |
| 173 | 1169 | 0440 | 34992 | 615 | 2776 | 14879 | | | | 111 | |
| 189 | 1199 | 0434 | 34992 | 622 | 2776 | 14881 | | | | 110 | |
| 173 | 1221 | 0433 | 34991 | 613 | 2777 | 14885 | | | | 113 | |
| 146 | 0671 | 0610 | 35063 | 533 | 2761 | 14866 | | | | 114 | |
| 146 | 0767 | 0533 | 35029 | 557 | 2768 | 14851 | | | | 114 | |
| 146 | 0863 | 0470 | 34984 | 587 | 2772 | 14840 | | | | 112 | |
| 146 | 0958 | 0429 | 34956 | 614 | 2774 | 14839 | | | | 109 | |
| 146 | 1054 | 0404 | 34940 | 631 | 2776 | 14844 | | | | 106 | |
| 146 | 1150 | 0392 | 34930 | 641 | 2776 | 14855 | | | | 104 | |
| 146 | 1246 | 0376 | 34922 | 652 | 2777 | 14864 | | | | 103 | |
| 160 | 1413 | 0367 | 34927 | 652 | 2778 | 14888 | | | | 109 | |
| 160 | 1506 | 0362 | 34927 | 653 | 2779 | 14902 | | | | 109 | |
| 160 | 1600 | 0358 | 34941 | 649 | 2780 | 14916 | | | | 111 | |
| 160 | 1695 | 0356 | 34948 | 648 | 2781 | 14932 | | | | 116 | |
| 160 | 1791 | 0368 | 34989 | 646 | 2783 | 14953 | | | | 110 | |
| 160 | 1889 | 0347 | 34988 | 646 | 2785 | 14961 | | | | 114 | |
| 160 | 1990 | 0335 | 34991 | 644 | 2787 | 14973 | | | | 117 | |
| 160 | 2093 | 0315 | 34992 | 646 | 2789 | 14982 | | | | 128 | |
| 160 | 2146 | 0297 | 34995 | 646 | 2791 | 14984 | | | | 128 | |
| 160 | 2199 | 0282 | 34998 | 649 | 2792 | 14986 | | | | 128 | |
| 160 | 2254 | 0277 | 34998 | 651 | 2793 | 14994 | | | | 129 | |
| 160 | 2310 | | 34999 | 653 | | | | | | 126 | |

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|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2655 | AIR T 02.0 | VIS 5 |
| CONS. NO 064 | MONTH 2 | MXSAMPD | 27 | WAVES 2 7733 | WET B 00.0 | STN |
| LAT 57-224N | DAY 20 | NO.DPTH | 28 | WND-DIR 260 | WW-CODE 94 | |
| LON 27-214W | HR 21.3 | W-COLOR | | WND-SPD 27 | CLD-TPE | |
| MARSD SO 183 | C/I 1810 | W-TRNSP | | BARO 978.5 | CLD-AMT | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 201 | 0003 | 0794 | 35135 | 677 | 2741 | 14829 | | | | 058 | |
| 201 | 0052 | 0795 | 35134 | 644 | 2741 | 14838 | | | | 062 | |
| 201 | 0101 | 0796 | 35135 | 644 | 2741 | 14846 | | | | 060 | |
| 201 | 0152 | 0796 | 35136 | 643 | 2741 | 14854 | | | | 060 | |
| 201 | 0201 | 0792 | 35138 | 639 | 2741 | 14861 | | | | 063 | |
| 201 | 0301 | 0761 | 35131 | 603 | 2745 | 14865 | | | | 075 | |
| 201 | 0400 | 0703 | 35099 | 555 | 2751 | 14859 | | | | 094 | |
| 201 | 0499 | 0623 | 35055 | 534 | 2759 | 14843 | | | | 111 | |
| 201 | 0598 | 0556 | 35041 | 548 | 2766 | 14832 | | | | 114 | |
| 201 | 0697 | 0490 | 34998 | 576 | 2771 | 14821 | | | | 116 | |
| 201 | 0796 | 0449 | 34973 | 597 | 2773 | 14820 | | | | 113 | |
| 201 | 0894 | 0413 | 34943 | 623 | 2775 | 14821 | | | | 113 | |
| 201 | 0993 | 0399 | 34937 | 634 | 2776 | 14832 | | | | 107 | |
| 201 | 1093 | 0386 | 34929 | 646 | 2777 | 14843 | | | | 106 | |
| 201 | 1194 | 0377 | 34925 | 650 | 2777 | 14856 | | | | 105 | |
| 201 | 1295 | 0368 | 34920 | 658 | 2778 | 14869 | | | | 104 | |
| 213 | 1407 | 0362 | 34924 | 656 | 2779 | 14885 | | | | 111 | |
| 213 | 1506 | 0357 | 34923 | 655 | 2779 | 14900 | | | | 113 | |
| 213 | 1606 | 0353 | 34932 | 652 | 2780 | 14915 | | | | 118 | |
| 213 | 1806 | 0345 | 34943 | 650 | 2782 | 14946 | | | | 124 | |
| 213 | 2009 | 0339 | 34962 | 649 | 2784 | 14978 | | | | 125 | |
| 213 | 2210 | 0316 | 34982 | 644 | 2788 | 15003 | | | | 139 | |
| 213 | 2312 | 0302 | 34981 | 638 | 2789 | 15014 | | | | 155 | |
| 213 | 2412 | 0290 | 34986 | 637 | 2790 | 15026 | | | | 163 | |
| 213 | 2511 | 0284 | 34987 | 641 | 2791 | 15041 | | | | 156 | |
| 213 | 2610 | 0275 | 34994 | 645 | 2792 | 15054 | | | | 136 | |
| 213 | 2659 | 0273 | 34996 | 651 | 2793 | 15061 | | | | 135 | |
| 213 | 2708 | 0271 | 34997 | 656 | 2793 | 15069 | | | | 128 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2723 | WAVES 1 25XX | AIR T 02.0 | VIS 7 |
| CONS. NO 065 | MONTH 2 | MXSAMPD 27 | WAVES 2 7733 | WET B 00.5 | STN |
| LAT 57-065N | DAY 21 | NO.DPTH 26 | WND-DIR 250 | WW-CODE 85 | |
| LON 26-281W | HR 02.4 | W-COLOR | WND-SPD 25 | CLD-TPE X | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | BARO 985.4 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 010 | 0003 | 0776 | 35136 | 652 | 2744 | 14822 | | | | | 061 | |
| 010 | 0052 | 0777 | 35131 | 648 | 2743 | 14831 | | | | | 060 | |
| 010 | 0100 | 0777 | 35136 | 647 | 2744 | 14839 | | | | | 058 | |
| 010 | 0149 | 0777 | 35131 | 649 | 2743 | 14847 | | | | | 060 | |
| 010 | 0197 | 0776 | 35132 | 650 | 2743 | 14854 | | | | | 058 | |
| 010 | 0293 | 0763 | 35136 | 609 | 2746 | 14865 | | | | | 069 | |
| 010 | 0390 | 0729 | 35136 | 576 | 2751 | 14868 | | | | | 081 | |
| 010 | 0487 | 0645 | 35076 | 534 | 2757 | 14850 | | | | | 106 | |
| 010 | 0586 | 0565 | 35033 | 542 | 2764 | 14834 | | | | | 111 | |
| 010 | 0686 | 0507 | 35008 | 578 | 2769 | 14826 | | | | | 109 | |
| 010 | 0788 | 0454 | 34965 | 604 | 2772 | 14821 | | | | | 106 | |
| 010 | 0993 | 0405 | 34941 | 633 | 2776 | 14834 | | | | | 101 | |
| 010 | 1096 | 0388 | 34929 | 651 | 2776 | 14844 | | | | | 103 | |
| 010 | 1195 | 0378 | 34921 | 656 | 2777 | 14856 | | | | | 101 | |
| 010 | 1290 | 0372 | 34927 | 655 | 2778 | 14870 | | | | | 102 | |
| 024 | 1421 | 0371 | 34933 | 651 | 2778 | 14892 | | | | | 106 | |
| 024 | 1519 | 0359 | 34927 | 654 | 2779 | 14903 | | | | | 107 | |
| 024 | 1617 | 0355 | 34935 | 650 | 2780 | 14918 | | | | | 111 | |
| 024 | 1716 | 0353 | 34938 | 650 | 2781 | 14934 | | | | | 113 | |
| 024 | 1815 | 0348 | 34944 | 649 | 2782 | 14948 | | | | | 117 | |
| 024 | 1914 | 0343 | 34951 | 647 | 2783 | 14963 | | | | | 118 | |
| 024 | 2114 | 0328 | 34971 | 645 | 2786 | 14991 | | | | | 131 | |
| 024 | 2313 | 0310 | 34989 | 642 | 2789 | 15018 | | | | | 134 | |
| 024 | 2512 | 0286 | 34987 | 640 | 2791 | 15042 | | | | | 148 | |
| 024 | 2611 | 0280 | 34990 | 642 | 2792 | 15056 | | | | | 142 | |
| 024 | 2659 | 0278 | 34994 | 645 | 2792 | 15064 | | | | | 141 | |

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|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2535 | AIR T 03.1 | VIS 8 |
| CONS. NO 066 | MONTH 2 | MXSAMPD | 29 | WAVES 2 XX | WET B 00.3 | STN |
| LAT 56-515N | DAY 21 | NO.DPTH | 28 | WND-DIR 250 | WW-CODE 27 | |
| LOX 25-403W | HR 07.3 | W-COLOR | | WND-SPD 18 | CLD-TPE 6 | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | | BARO 990.4 | CLD-AMT 4 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 062 | 0003 | 0907 | 35230 | 646 | 2731 | 14873 | | | | 042 | |
| 062 | 0052 | 0910 | 35233 | 630 | 2730 | 14882 | | | | 046 | |
| 062 | 0101 | 0910 | 35230 | 632 | 2730 | 14890 | | | | 043 | |
| 062 | 0151 | 0911 | 35236 | 631 | 2730 | 14899 | | | | 043 | |
| 062 | 0200 | 0914 | 35232 | 630 | 2730 | 14908 | | | | 046 | |
| 062 | 0300 | 0915 | 35238 | 629 | 2730 | 14925 | | | | 046 | |
| 062 | 0399 | 0925 | 35301 | 563 | 2733 | 14946 | | | | 063 | |
| 062 | 0498 | 0738 | 35071 | 538 | 2744 | 14888 | | | | 094 | |
| 062 | 0597 | 0684 | 35091 | 495 | 2753 | 14884 | | | | 113 | |
| 062 | 0697 | 0592 | 35069 | 528 | 2764 | 14863 | | | | 117 | |
| 062 | 0796 | 0507 | 35024 | 564 | 2771 | 14845 | | | | 112 | |
| 062 | 0896 | 0464 | 34976 | 587 | 2772 | 14843 | | | | 111 | |
| 062 | 0995 | 0433 | 34961 | 610 | 2774 | 14846 | | | | 107 | |
| 062 | 1094 | 0405 | 34937 | 630 | 2775 | 14851 | | | | 106 | |
| 062 | 1193 | 0388 | 34927 | 642 | 2776 | 14860 | | | | 103 | |
| 062 | 1291 | 0378 | 34918 | 653 | 2777 | 14872 | | | | 101 | |
| 073 | 1490 | 0365 | 34919 | 654 | 2778 | 14900 | | | | 110 | |
| 073 | 1696 | 0358 | 34929 | 655 | 2779 | 14932 | | | | 113 | |
| 073 | 1898 | 0355 | 34942 | 648 | 2781 | 14965 | | | | 117 | |
| 073 | 2098 | 0345 | 34955 | 646 | 2783 | 14995 | | | | 126 | |
| 073 | 2296 | 0334 | 34966 | 642 | 2785 | 15025 | | | | 133 | |
| 073 | 2394 | 0323 | 34973 | 643 | 2786 | 15037 | | | | 141 | |
| 073 | 2493 | | 34978 | 639 | | | | | | 153 | |
| 073 | 2591 | 0300 | 34978 | 631 | 2789 | 15061 | | | | 182 | |
| 073 | 2690 | 0286 | 34969 | 620 | 2789 | 15072 | | | | 230 | |
| 073 | 2788 | 0280 | 34982 | 630 | 2791 | 15086 | | | | 182 | |
| 073 | 2837 | 0275 | 34998 | 644 | 2793 | 15093 | | | | 152 | |
| 073 | 2887 | 0264 | 34999 | 654 | 2794 | 15097 | | | | 121 | |

C-REF-NO 001 YR 1967 DEPTH 3049 WAVES 1 2535 AIR T 01.3 VIS 7
 CONS. NO 067 MONTH 2 MXSAMPD 30 WAVES 2 XX WET B -00.3 STN
 LAT 56-371N DAY 21 NO.DPTH 28 WND-DIR 260 WW-CODE 90
 LON 24-468W HR 11.5 W-COLOR WND-SPD 15 CLD-TPE 8
 MARSD SQ 183 C/I 1810 W-TRNSP BARO 995.1 CLD-AMT 6 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 105 | 0003 | 0937 | 35312 | 640 | 2732 | 14885 | | | | | 057 | |
| 105 | 0052 | 0939 | 35310 | 624 | 2732 | 14894 | | | | | 053 | |
| 105 | 0101 | 0939 | 35311 | 628 | 2732 | 14902 | | | | | 052 | |
| 105 | 0151 | 0939 | 35314 | 631 | 2732 | 14910 | | | | | 051 | |
| 105 | 0200 | 0940 | 35313 | 621 | 2732 | 14919 | | | | | 047 | |
| 105 | 0298 | 0940 | 35313 | 625 | 2732 | 14935 | | | | | 052 | |
| 105 | 0396 | 0929 | 35288 | 595 | 2732 | 14947 | | | | | 057 | |
| 105 | 0494 | 0795 | 35137 | 516 | 2741 | 14910 | | | | | 097 | |
| 105 | 0591 | 0733 | 35144 | 443 | 2751 | 14903 | | | | | 110 | |
| 105 | 0689 | 0654 | 35123 | 508 | 2760 | 14888 | | | | | 115 | |
| 105 | 0787 | 0570 | 35073 | 539 | 2767 | 14870 | | | | | 114 | |
| 105 | 0885 | 0510 | 35031 | 569 | 2771 | 14861 | | | | | 105 | |
| 105 | 0983 | 0462 | 34996 | 604 | 2774 | 14857 | | | | | 107 | |
| 105 | 1080 | 0415 | 34943 | 630 | 2775 | 14853 | | | | | 111 | |
| 105 | 1177 | 0399 | 34936 | 642 | 2776 | 14862 | | | | | 115 | |
| 105 | 1273 | 0387 | 34995 | 618 | 2782 | 14874 | | | | | 104 | |
| 115 | 1400 | 0374 | 34919 | 658 | 2777 | 14889 | | | | | 105 | |
| 115 | 1495 | 0367 | 34915 | 665 | 2777 | 14902 | | | | | 106 | |
| 115 | 1685 | 0364 | 34928 | 655 | 2779 | 14933 | | | | | 114 | |
| 115 | 1877 | 0353 | 34931 | 651 | 2780 | 14961 | | | | | 118 | |
| 115 | 2072 | 0343 | 34941 | 649 | 2782 | 14990 | | | | | 122 | |
| 115 | 2268 | 0331 | 34951 | 653 | 2784 | 15018 | | | | | 132 | |
| 115 | 2467 | 0317 | 34961 | 639 | 2786 | 15047 | | | | | 159 | |
| 115 | 2664 | 0298 | 34964 | 624 | 2788 | 15073 | | | | | 200 | |
| 115 | 2763 | 0290 | 34965 | 620 | 2789 | 15086 | | | | | 220 | |
| 115 | 2861 | 0282 | 34960 | 614 | 2789 | 15100 | | | | | 242 | |
| 115 | 2910 | 0279 | 34960 | 612 | 2789 | 15107 | | | | | 270 | |
| 115 | 2959 | 0276 | 34960 | 617 | 2790 | 15114 | | | | | 274 | |

| | | | | | | |
|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2947 | AIR T 02.3 | VIS 8 |
| CONS. NO 068 | MONTH 2 | MXSAMPD | 31 | WAVES 2 XX | WET B 00.8 | STN |
| LAT 56-202N | DAY 21 | NO.DPTH | 28 | WND-DIR 290 | WW-CODE 27 | |
| LON 24-080W | HR 16.4 | W-COLOR | | WND-SPD 15 | CLD-TPE 8 | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | | BARO 999.4 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 151 | 0003 | 0956 | 35361 | 639 | 2733 | 14893 | | | | 041 | |
| 151 | 0052 | 0957 | 35357 | 625 | 2732 | 14901 | | | | 040 | |
| 151 | 0100 | 0957 | 35359 | 625 | 2732 | 14909 | | | | 041 | |
| 151 | 0150 | 0957 | 35355 | 624 | 2732 | 14917 | | | | 041 | |
| 151 | 0199 | 0957 | 35360 | 623 | 2733 | 14925 | | | | 041 | |
| 151 | 0299 | 0958 | 35360 | 624 | 2732 | 14942 | | | | 040 | |
| 151 | 0398 | 0959 | 35358 | 624 | 2732 | 14959 | | | | 042 | |
| 151 | 0497 | 0947 | 35341 | 622 | 2733 | 14971 | | | | 043 | |
| 151 | 0597 | 0917 | 35309 | 560 | 2735 | 14976 | | | | 060 | |
| 151 | 0697 | 0839 | 35246 | 505 | 2743 | 14962 | | | | 086 | |
| 151 | 0796 | 0681 | 35075 | 503 | 2752 | 14915 | | | | 105 | |
| 151 | 0896 | | 35158 | 510 | | | | | | 108 | |
| 151 | 0994 | 0554 | 35067 | 549 | 2768 | 14897 | | | | 107 | |
| 151 | 1093 | 0483 | 34998 | 583 | 2771 | 14884 | | | | 104 | |
| 151 | 1192 | 0441 | 34965 | 607 | 2774 | 14883 | | | | 104 | |
| 151 | 1289 | 0412 | 34945 | 628 | 2775 | 14887 | | | | 101 | |
| 163 | 1431 | 0394 | 34935 | 638 | 2776 | 14903 | | | | | |
| 163 | 1629 | 0371 | 34916 | 654 | 2777 | 14926 | | | | 101 | |
| 163 | 1829 | 0362 | 34922 | 654 | 2778 | 14956 | | | | 104 | |
| 163 | 2029 | 0355 | 34931 | 651 | 2780 | 14988 | | | | 114 | |
| 163 | 2228 | 0346 | 34944 | 646 | 2782 | 15018 | | | | 121 | |
| 163 | 2428 | 0333 | 34950 | 644 | 2784 | 15047 | | | | 128 | |
| 163 | 2629 | 0316 | 34959 | 633 | 2786 | 15074 | | | | 168 | |
| 163 | 2829 | 0292 | 34965 | 620 | 2789 | 15098 | | | | 219 | |
| 163 | 2929 | 0281 | 34959 | 607 | 2789 | 15111 | | | | 264 | |
| 163 | 3029 | 0283 | 34971 | 618 | 2790 | 15129 | | | | 224 | |
| 163 | 3080 | 0280 | 34967 | 620 | 2790 | 15137 | | | | 224 | |
| 163 | 3130 | 0279 | 34974 | 625 | 2791 | 15145 | | | | 216 | |

| | | | | | | |
|--------------|----------|------------|-------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2535 | AIR T 04.8 | VIS 8 |
| CONS. NO 069 | MONTH 2 | MXSAMPD 23 | WAVES 2 XX | WET B 01.3 | STN | |
| LAT 56-078N | DAY 21 | NO.DPTH 28 | WND-DIR 240 | WW-CODE 02 | | |
| LON 23-180W | HR 20.9 | W-COLOR | WND-SPD 10 | CLC-TPE 8 | | |
| MARSD SQ 183 | C/I 1810 | W-TRNSP | BARO 1002.5 | CLD-AMT 6 | HW | |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 199 | 0002 | 0956 | 35304 | 623 | 2728 | 14892 | | | | 043 | |
| 199 | 0051 | 0957 | 35305 | 618 | 2728 | 14900 | | | | 042 | |
| 199 | 0101 | 0958 | 35304 | 620 | 2728 | 14909 | | | | 041 | |
| 199 | 0151 | 0959 | 35304 | 621 | 2728 | 14918 | | | | 043 | |
| 199 | 0201 | 0959 | 35304 | 618 | 2728 | 14926 | | | | 041 | |
| 199 | 0301 | 0917 | 35240 | 572 | 2730 | 14926 | | | | 059 | |
| 199 | 0401 | 0805 | 35170 | 503 | 2742 | 14899 | | | | 088 | |
| 199 | 0501 | 0736 | 35099 | 492 | 2747 | 14888 | | | | 103 | |
| 199 | 0601 | 0650 | 35088 | 503 | 2758 | 14871 | | | | 109 | |
| 199 | 0701 | 0598 | 35112 | 533 | 2766 | 14867 | | | | 109 | |
| 199 | 0801 | 0546 | 35075 | 555 | 2770 | 14862 | | | | 109 | |
| 199 | 0899 | 0493 | 35029 | 581 | 2773 | 14856 | | | | 106 | |
| 199 | 0999 | 0452 | 34991 | 605 | 2774 | 14855 | | | | 104 | |
| 199 | 1098 | 0427 | 34976 | 618 | 2776 | 14861 | | | | 107 | |
| 199 | 1197 | 0403 | 34949 | 633 | 2776 | 14868 | | | | 103 | |
| 199 | 1294 | 0389 | 34938 | 639 | 2777 | 14878 | | | | 104 | |
| 209 | 1390 | 0379 | 34932 | 644 | 2778 | 14890 | | | | 113 | |
| 209 | 1490 | 0370 | 34932 | 649 | 2778 | 14903 | | | | 110 | |
| 209 | 1590 | 0363 | 34931 | 647 | 2779 | 14917 | | | | 116 | |
| 209 | 1690 | 0355 | 34934 | 648 | 2780 | 14930 | | | | 118 | |
| 209 | 1789 | 0348 | 34939 | 646 | 2781 | 14944 | | | | 123 | |
| 209 | 1888 | 0337 | 34947 | 644 | 2783 | 14956 | | | | 131 | |
| 209 | 1986 | 0326 | 34953 | 644 | 2784 | 14968 | | | | 145 | |
| 209 | 2084 | 0316 | 34961 | 637 | 2786 | 14981 | | | | 166 | |
| 209 | 2132 | 0309 | 34957 | 631 | 2786 | 14986 | | | | 179 | |
| 209 | 2181 | 0299 | 34959 | 623 | 2787 | 14990 | | | | 210 | |
| 209 | 2229 | 0296 | 34970 | 630 | 2789 | 14997 | | | | 192 | |
| 209 | 2277 | 0288 | 34959 | 616 | 2788 | 15002 | | | | 243 | |

C-REF-NO 001 YR 1967 DEPTH 1708 WAVES 1 1920 AIR T 03.4 VIS 8
 CONS. NO 070 MONTH 2 MXSAMPD 17 WAVES 2 2555 WET B 00.8 STN
 LAT 55-500N DAY 22 NO.DPTH 18 WND-DIR 190 WW-CODE 02
 LON 22-152W HR 01.7 W-COLOR WND-SPD 04 CLD-TPE 8
 MARSD SQ 183 C/I 1810 W-TRNSP BARO 1003.0 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 018 | 0002 | 0920 | 35255 | 620 | 2730 | 14878 | | | | | 047 | |
| 018 | 0036 | 0921 | 35253 | 619 | 2730 | 14884 | | | | | 048 | |
| 018 | 0110 | 0923 | 35254 | 619 | 2730 | 14897 | | | | | 051 | |
| 018 | 0159 | 0923 | 35255 | 618 | 2730 | 14905 | | | | | 050 | |
| 018 | 0208 | 0924 | 35253 | 618 | 2730 | 14913 | | | | | 053 | |
| 018 | 0307 | 0840 | 35156 | 508 | 2735 | 14897 | | | | | 089 | |
| 018 | 0406 | 0773 | 35161 | 493 | 2746 | 14888 | | | | | 101 | |
| 018 | 0505 | 0672 | 35126 | 498 | 2758 | 14864 | | | | | 113 | |
| 018 | 0604 | 0599 | 35092 | 527 | 2765 | 14851 | | | | | 112 | |
| 018 | 0803 | 0493 | 35037 | 583 | 2773 | 14840 | | | | | 109 | |
| 018 | 1003 | 0419 | 34965 | 624 | 2776 | 14842 | | | | | 106 | |
| 018 | 1202 | 0384 | 34933 | 644 | 2777 | 14860 | | | | | 106 | |
| 018 | 1401 | 0371 | 34939 | 648 | 2779 | 14888 | | | | | 109 | |
| 018 | 1498 | 0367 | 34942 | 644 | 2780 | 14903 | | | | | 118 | |
| 018 | 1547 | 0362 | 34945 | 644 | 2780 | 14909 | | | | | 121 | |
| 018 | 1595 | 0359 | 34942 | 647 | 2780 | 14916 | | | | | 121 | |
| 018 | 1642 | 0356 | 34944 | 647 | 2781 | 14923 | | | | | 123 | |
| 018 | 1690 | 0347 | 34960 | 643 | 2783 | 14927 | | | | | 134 | |

| | | | | | | | | |
|--------------|----------|---------|----|---------|-------|-------------|-----|---|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 | XX | AIR T -09.0 | VIS | 5 |
| CONS. NO 071 | MONTH 3 | MXSAMPD | 08 | WAVES 2 | XX | WET B -09.0 | STN | |
| LAT 65-453N | DAY 08 | NO.DPTH | 18 | WND-DIR | 030 | WW-CODE 85 | | |
| LON 28-062W | HR 23.9 | W-COLOR | | WND-SPD | 07 | CLD-TPE X | | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO | 992.5 | CLD-AMT 8 | HW | |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 239 | 0002 | 0628 | 35143 | 649 | 2765 | 14764 | | | | 060 | |
| 239 | 0061 | 0636 | 35155 | 662 | 2765 | 14777 | | | | 062 | |
| 235 | 0196 | 0630 | 35147 | | 2765 | 14797 | | | | | |
| 239 | 0263 | 0634 | 35155 | 662 | 2765 | 14810 | | | | 060 | |
| 239 | 0462 | 0633 | 35154 | 662 | 2765 | 14842 | | | | 068 | |
| 239 | 0536 | 0634 | 35161 | 662 | 2766 | 14855 | | | | 060 | |
| 239 | 0586 | 0633 | 35158 | 662 | 2766 | 14863 | | | | 061 | |
| 239 | 0610 | 0634 | 35159 | 662 | 2765 | 14867 | | | | 060 | |
| 239 | 0630 | 0628 | 35152 | 662 | 2766 | 14868 | | | | 060 | |
| 239 | 0650 | 0615 | 35141 | 656 | 2767 | 14866 | | | | 065 | |
| 239 | 0669 | 0601 | 35138 | 655 | 2768 | 14863 | | | | 064 | |
| 239 | 0689 | 0593 | 35127 | 660 | 2768 | 14863 | | | | 065 | |
| 239 | 0709 | 0578 | 35118 | 671 | 2769 | 14860 | | | | 060 | |
| 239 | 0729 | 0562 | 35111 | 668 | 2771 | 14857 | | | | 062 | |
| 239 | 0748 | 0552 | 35111 | 664 | 2772 | 14856 | | | | 065 | |
| 239 | 0767 | 0457 | 35070 | 682 | 2780 | 14820 | | | | 064 | |
| 239 | 0791 | | 34961 | 705 | | | | | | 066 | |
| 239 | 0807 | 0032 | 34929 | 713 | 2805 | 14640 | | | | 065 | |

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|--------------|----------|---------|----|---------|-------|-------------|-----|---|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 | XX | AIR T -08.6 | VIS | 5 |
| CONS. NO 072 | MONTH 3 | MXSAMPD | 08 | WAVES 2 | XX | WET B -09.0 | STN | |
| LAT 65-420N | DAY 09 | NO.DPTH | 13 | WND-DIR | 050 | WW-CODE 02 | | |
| LON 27-550W | HR 02.9 | W-COLOR | | WND-SPD | 07 | CLD-TPE X | | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO | 991.7 | CLD-AMT 8 | HW | |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 029 | 0012 | 0616 | 35168 | 668 | 2769 | 14761 | | | | 062 | |
| 029 | 0107 | 0618 | 35166 | 668 | 2768 | 14778 | | | | 062 | |
| 029 | 0208 | 0618 | 35166 | 668 | 2768 | 14794 | | | | 062 | |
| 029 | 0309 | 0608 | 35168 | 668 | 2770 | 14807 | | | | 064 | |
| 029 | 0409 | 0617 | 35169 | 668 | 2768 | 14827 | | | | 062 | |
| 023 | 0427 | 0611 | 35163 | | 2769 | 14828 | | | | | |
| 029 | 0508 | 0608 | 35165 | 665 | 2769 | 14840 | | | | 064 | |
| 029 | 0558 | 0599 | 35148 | 662 | 2769 | 14844 | | | | 064 | |
| 029 | 0607 | 0577 | 35134 | 662 | 2771 | 14843 | | | | 068 | |
| 029 | 0657 | 0568 | 35127 | 663 | 2771 | 14848 | | | | 066 | |
| 029 | 0706 | 0564 | 35129 | 670 | 2772 | 14854 | | | | 066 | |
| 029 | 0731 | 0564 | 35130 | 668 | 2772 | 14859 | | | | 067 | |
| 029 | 0757 | 0563 | 35127 | 673 | 2772 | 14862 | | | | 064 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 728 | WAVES 1 0721 | AIR T -05.0 | VIS 5 |
| CONS. NO 073 | MONTH 3 | MXSAMPD 07 | WAVES 2 XX | WET B -05.5 | STN |
| LAT 65-335N | DAY 09 | NO.DPTH 13 | WND-DIR 070 | WW-CODE 71 | |
| LON 27-426W | HR 06.2 | W-COLOR | WND-SPD 07 | CLD-TPE | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 991.9 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 062 | 0004 | 0646 | 35164 | 662 | 2764 | 14772 | | | | | 060 | |
| 062 | 0024 | 0646 | 35169 | 662 | 2765 | 14775 | | | | | 059 | |
| 062 | 0123 | 0648 | 35171 | 662 | 2765 | 14792 | | | | | 060 | |
| 055 | 0196 | 0624 | | | | | | | | | | |
| 062 | 0220 | 0635 | 35156 | 662 | 2765 | 14803 | | | | | 058 | |
| 062 | 0316 | 0627 | 35149 | 662 | 2766 | 14816 | | | | | 061 | |
| 062 | 0413 | 0629 | 35157 | 664 | 2766 | 14832 | | | | | 060 | |
| 062 | 0511 | 0623 | 35160 | 659 | 2767 | 14846 | | | | | 061 | |
| 062 | 0561 | 0606 | 35145 | 671 | 2768 | 14848 | | | | | 058 | |
| 062 | 0611 | 0596 | 35139 | 673 | 2769 | 14852 | | | | | 058 | |
| 062 | 0662 | 0577 | 35136 | 678 | 2771 | 14852 | | | | | 060 | |
| 062 | 0688 | 0566 | 35130 | 679 | 2772 | 14852 | | | | | | |
| 062 | 0713 | 0554 | 35127 | 684 | 2773 | 14852 | | | | | 059 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 619 | WAVES 1 0322 | AIR T -06.5 | VIS 3 |
| CONS. NO 074 | MONTH 3 | MXSAMPD 06 | WAVES 2 XX | WET B -06.4 | STN |
| LAT 65-483N | DAY 09 | NO.DPTH 21 | WNC-DIR 030 | WW-CODE 57 | |
| LON 28-236W | HR 23.3 | W-COLOR | WND-SPD 15 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 987.5 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 233 | 0028 | 0649 | 35164 | 662 | 2764 | 14777 | | | | 057 | |
| 233 | 0045 | 0649 | 35161 | 657 | 2764 | 14780 | | | | 057 | |
| 233 | 0090 | 0645 | 35160 | 660 | 2764 | 14786 | | | | 058 | |
| 233 | 0134 | 0629 | 35148 | 655 | 2765 | 14786 | | | | 064 | |
| 233 | 0179 | 0555 | 35070 | 673 | 2769 | 14763 | | | | 058 | |
| 233 | 0224 | 0484 | 34997 | 684 | 2771 | 14740 | | | | 055 | |
| 233 | 0268 | 0424 | 34988 | 700 | 2777 | 14723 | | | | 052 | |
| 233 | 0313 | 0416 | 35009 | 706 | 2780 | 14727 | | | | 053 | |
| 233 | 0359 | 0413 | 35016 | 708 | 2781 | 14733 | | | | 055 | |
| 233 | 0403 | 0436 | 35083 | 696 | 2783 | 14751 | | | | 056 | |
| 233 | 0422 | 0318 | 34955 | 719 | 2785 | 14703 | | | | 052 | |
| 233 | 0432 | 0196 | 34820 | 733 | 2785 | 14650 | | | | 051 | |
| 233 | 0440 | 0055 | 34718 | 735 | 2787 | 14587 | | | | 050 | |
| 233 | 0450 | 0017 | 34708 | 729 | 2788 | 14571 | | | | 048 | |
| 233 | 0460 | 0033 | 34752 | 720 | 2791 | 14581 | | | | 050 | |
| 233 | 0468 | 0060 | 34803 | 709 | 2793 | 14595 | | | | 050 | |
| 224 | 0493 | 0101 | 34909 | | 2799 | 14619 | | | | | |
| 233 | 0498 | 0101 | 34912 | 702 | 2800 | 14620 | | | | 048 | |
| 233 | 0537 | 0070 | 34929 | 711 | 2803 | 14613 | | | | 049 | |
| 233 | 0579 | 0063 | 34934 | 712 | 2804 | 14617 | | | | 051 | |
| 233 | 0600 | 0063 | 34940 | 711 | 2804 | 14620 | | | | 049 | |

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|--------------|----------|------------|--|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 0422 | AIR T -05.2 | VIS 2 |
| CONS. NO 075 | MONTH 3 | MXSAMPD 08 | | WAVES 2 XX | WET B -05.3 | STN |
| LAT 65-448N | DAY 10 | NO.DPTH 13 | | WND-DIR 040 | WW-CODE 49 | |
| LON 28-161W | HR 03.7 | W-COLOR | | WND-SPD 16 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 986.3 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 037 | 0603 | 0340 | 34951 | 709 | 2783 | 14742 | | | | | 052 | |
| 037 | 0627 | 0317 | 34973 | 715 | 2787 | 14737 | | | | | 052 | |
| 037 | 0642 | 0304 | 34983 | 720 | 2789 | 14734 | | | | | 053 | |
| 037 | 0659 | 0180 | 34868 | 714 | 2790 | 14681 | | | | | 052 | |
| 037 | 0668 | 0074 | 34787 | 713 | 2791 | 14634 | | | | | 052 | |
| 037 | 0675 | 0078 | 34819 | 703 | 2794 | 14638 | | | | | 050 | |
| 037 | 0684 | 0095 | 34879 | 723 | 2797 | 14648 | | | | | 053 | |
| 037 | 0692 | 0070 | 34879 | 719 | 2799 | 14638 | | | | | 055 | |
| 037 | 0700 | 0062 | 34897 | 718 | 2801 | 14636 | | | | | 053 | |
| 037 | 0709 | | 34916 | 714 | | | | | | | 052 | |
| 032 | 0733 | 0060 | 34931 | | 2804 | 14641 | | | | | | |
| 037 | 0736 | 0055 | 34929 | 712 | 2804 | 14639 | | | | | 050 | |
| 037 | 0795 | 0055 | 34929 | 712 | 2804 | 14649 | | | | | 050 | |

C-REF-NO 001 YR 1967 DEPTH 590 WAVES 1 0558 AIR T -00.5 VIS 6
 CONS. NO 076 MONTH 3 MXSAMPD 06 WAVES 2 58 WET B -01.0 STN
 LAT 65-585N DAY 11 NO.DPTH 14 WND-DIR 050 WW-CODE 02
 LON 27-050W HR 22.0 W-COLOR WND-SPD 25 CLD-TPE X
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1004.4 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 220 | 0027 | 0472 | 35007 | 699 | 2773 | 14703 | | | | | 054 | |
| 220 | 0185 | 0388 | 34942 | 704 | 2777 | 14693 | | | | | 055 | |
| 220 | 0283 | 0304 | 34903 | 726 | 2783 | 14673 | | | | | 053 | |
| 220 | 0383 | 0384 | 35058 | 720 | 2787 | 14726 | | | | | 056 | |
| 220 | 0424 | 0396 | 35101 | 718 | 2789 | 14738 | | | | | 057 | |
| 220 | 0444 | 0165 | 34975 | 714 | 2800 | 14640 | | | | | 068 | |
| 220 | 0454 | 0027 | 34937 | 720 | 2806 | 14580 | | | | | 062 | |
| 220 | 0464 | 0020 | 34935 | 720 | 2806 | 14578 | | | | | 063 | |
| 220 | 0473 | 0019 | 34937 | 719 | 2807 | 14579 | | | | | 062 | |
| 220 | 0484 | 0018 | 34937 | 720 | 2807 | 14580 | | | | | 064 | |
| 220 | 0494 | 0019 | 34935 | 720 | 2806 | 14583 | | | | | 059 | |
| 220 | 0503 | 0018 | 34937 | 718 | 2807 | 14584 | | | | | 063 | |
| 220 | 0541 | 0018 | 34937 | 717 | 2807 | 14590 | | | | | 060 | |
| 220 | 0577 | 0018 | 34899 | 705 | 2804 | 14595 | | | | | 050 | |

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|--------------|----------|---------|----|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 0446 | AIR T -05.5 | VIS 2 |
| CONS. NO 077 | MONTH 3 | MXSAMPD | 06 | WAVES 2 XX | WET B -05.5 | STN |
| LAT 65-538N | DAY 12 | NO.DPTH | 18 | WND-DIR 040 | WW-CODE 75 | |
| LON 27-395W | HR 01.5 | W-COLOR | | WND-SPD 17 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 1004.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 015 | 0079 | 0607 | 35141 | 673 | 2768 | 14769 | | | | | 052 | |
| 015 | 0114 | 0610 | 35153 | 672 | 2768 | 14776 | | | | | 052 | |
| 015 | 0148 | 0598 | 35131 | 673 | 2768 | 14776 | | | | | 050 | |
| 015 | 0182 | 0444 | 34938 | 699 | 2771 | 14716 | | | | | 050 | |
| 015 | 0214 | 0319 | 34811 | 721 | 2774 | 14667 | | | | | 047 | |
| 015 | 0246 | 0197 | 34697 | 735 | 2775 | 14618 | | | | | 045 | |
| 015 | 0277 | 0184 | 34694 | 737 | 2776 | 14617 | | | | | 044 | |
| 015 | 0307 | 0236 | 34805 | 735 | 2781 | 14646 | | | | | 048 | |
| 015 | 0337 | 0152 | 34773 | 743 | 2785 | 14614 | | | | | 047 | |
| 015 | 0367 | 0192 | 34793 | 741 | 2783 | 14637 | | | | | 046 | |
| 015 | 0395 | 0121 | 34770 | 735 | 2787 | 14610 | | | | | 045 | |
| 015 | 0424 | 0073 | 34757 | 721 | 2789 | 14593 | | | | | 044 | |
| 015 | 0453 | 0089 | 34868 | 712 | 2797 | 14606 | | | | | 044 | |
| 015 | 0483 | 0096 | 34904 | 711 | 2799 | 14615 | | | | | 042 | |
| 015 | 0515 | 0092 | 34925 | 709 | 2801 | 14619 | | | | | 043 | |
| 015 | 0549 | 0079 | 34926 | 714 | 2802 | 14619 | | | | | 043 | |
| 015 | 0585 | 0063 | 34935 | 714 | 2804 | 14618 | | | | | 047 | |
| 015 | 0626 | 0051 | 34937 | 714 | 2805 | 14619 | | | | | 046 | |

C-REF-NO 001 YR 1967 DEPTH 630 WAVES 1 2733 AIR T 01.7 VIS 8
 CONS. NO 078 MONTH 3 MXSAMPD 06 WAVES 2 2135 WET B 00.8 STN
 LAT 65-491N DAY 18 NO.DPTH 13 WND-DIR 270 WW-CODE 03
 LON 28-146W HR 22.4 W-COLOR WND-SPD 20 CLD-TPE 8
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 975.4 CLD-AMT 2 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 224 | 0027 | 0623 | 35161 | 666 | 2767 | 14767 | | | | | 059 | |
| 224 | 0174 | 0628 | 35160 | 668 | 2766 | 14793 | | | | | 055 | |
| 220 | 0701 | 0626 | 35157 | | 2766 | 14796 | | | | | | |
| 224 | 0321 | 0623 | 35154 | 663 | 2767 | 14815 | | | | | 061 | |
| 224 | 0345 | 0611 | 35138 | 657 | 2767 | 14814 | | | | | 060 | |
| 224 | 0369 | 0598 | 35131 | 650 | 2768 | 14812 | | | | | 063 | |
| 224 | 0394 | 0575 | 35104 | 644 | 2769 | 14807 | | | | | 062 | |
| 224 | 0418 | 0517 | 35116 | 662 | 2777 | 14788 | | | | | 062 | |
| 224 | 0442 | 0502 | 35038 | 668 | 2772 | 14784 | | | | | 058 | |
| 224 | 0467 | 0525 | 35062 | 664 | 2772 | 14798 | | | | | 060 | |
| 224 | 0490 | 0505 | 35072 | 657 | 2775 | 14794 | | | | | 068 | |
| 224 | 0514 | 0423 | 35008 | 653 | 2779 | 14763 | | | | | 074 | |
| 224 | 0560 | 0124 | 34910 | 657 | 2798 | 14640 | | | | | 047 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 500 | WAVES 1 2734 | AIR T -03.3 | VIS 8 |
| CONS. NO 079 | MONTH 3 | MXSAMPD 04 | WAVES 2 2135 | WET B -03.8 | STN |
| LAT 65-513N | DAY 19 | NO.DPTH 12 | WND-DIR 270 | WW-CODE 03 | |
| LON 28-273W | HR 00.7 | W-COLOR | WND-SPD 19 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 978.4 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 007 | 0002 | 0617 | 35157 | 686 | 2768 | 14760 | | | | | |
| 007 | 0049 | 0623 | 35156 | 670 | 2767 | 14770 | | | | 054 | |
| 007 | 0141 | 0624 | 35156 | 672 | 2767 | 14786 | | | | 053 | |
| 007 | 0235 | 0625 | 35158 | 671 | 2767 | 14802 | | | | 052 | |
| 007 | 0260 | 0623 | 35153 | 669 | 2766 | 14805 | | | | 053 | |
| 007 | 0283 | 0599 | 35141 | 648 | 2769 | 14799 | | | | 062 | |
| 007 | 0307 | 0491 | 35014 | 685 | 2772 | 14757 | | | | 052 | |
| 007 | 0332 | 0445 | 34976 | 695 | 2774 | 14742 | | | | 050 | |
| 007 | 0355 | 0493 | 35105 | 697 | 2779 | 14767 | | | | 052 | |
| 007 | 0379 | 0474 | 35108 | 704 | 2781 | 14763 | | | | 052 | |
| 007 | 0402 | 0283 | 34867 | 730 | 2782 | 14683 | | | | 048 | |
| 007 | 0425 | 0230 | 34849 | 708 | 2785 | 14664 | | | | 049 | |

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|--------------|----------|---------|----|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2934 | AIR T 02.5 | VIS 7 |
| CONS. NO 080 | MONTH 3 | MXSAMPD | 08 | WAVES 2 2035 | WET B 00.0 | STN |
| LAT 62-220N | DAY 22 | NO.DPTH | 12 | WNC-DIR 290 | WW-CODE 03 | |
| LON 25-591W | HR 13.1 | W-COLOR | | WND-SPD 14 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 1007.0 | CLD-AMT 5 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 131 | 0004 | 0689 | 35194 | | 2761 | 14789 | | | | 048 | |
| 131 | 0091 | 0691 | 35184 | | 2760 | 14804 | | | | 049 | |
| 131 | 0140 | 0691 | 35195 | | 2761 | 14813 | | | | 048 | |
| 131 | 0190 | 0691 | 35184 | | 2760 | 14821 | | | | 048 | |
| 131 | 0239 | 0692 | 35184 | | 2760 | 14829 | | | | 047 | |
| 131 | 0288 | 0693 | 35185 | | 2759 | 14838 | | | | 047 | |
| 131 | 0388 | 0695 | 35186 | | 2759 | 14855 | | | | 048 | |
| 131 | 0488 | 0693 | 35185 | | 2759 | 14870 | | | | 042 | |
| 131 | 0588 | 0662 | 35153 | | 2761 | 14874 | | | | 062 | |
| 131 | 0688 | 0653 | 35148 | | 2762 | 14887 | | | | 065 | |
| 131 | 0737 | 0651 | 35143 | | 2762 | 14895 | | | | 066 | |
| 131 | 0787 | 0650 | 35146 | | 2762 | 14902 | | | | 066 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1451 | WAVES 1 3221 | AIR T 00.9 | VIS 8 |
| CONS. NO 081 | MONTH 3 | MXSAMPD 14 | WAVES 2 4945 | WET B 00.1 | STN |
| LAT 62-355N | DAY 22 | NO.DPTH 16 | WND-DIR 320 | WW-CODE 26 | |
| LON 26-460W | HR 16.8 | W-COLOR | WND-SPD 06 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1009.8 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 167 | 0001 | | 35177 | | | | | | | 048 | |
| 167 | 0040 | 0686 | 35184 | | 2760 | 14794 | | | | 047 | |
| 167 | 0090 | 0688 | 35184 | | 2760 | 14803 | | | | 048 | |
| 167 | 0140 | 0687 | 35185 | | 2760 | 14811 | | | | 048 | |
| 167 | 0239 | 0688 | 35186 | | 2760 | 14828 | | | | 048 | |
| 167 | 0339 | 0689 | 35189 | | 2760 | 14844 | | | | 048 | |
| 167 | 0539 | 0691 | 35185 | | 2760 | 14878 | | | | 047 | |
| 167 | 0740 | 0655 | 35143 | | 2761 | 14897 | | | | 063 | |
| 167 | 0942 | 0541 | 35054 | | 2769 | 14883 | | | | 083 | |
| 167 | 1142 | 0473 | 35032 | | 2775 | 14889 | | | | 083 | |
| 167 | 1242 | 0464 | 35026 | | 2776 | 14901 | | | | 084 | |
| 167 | 1291 | 0457 | 35023 | | 2776 | 14907 | | | | 084 | |
| 167 | 1341 | 0449 | 35022 | | 2777 | 14912 | | | | 082 | |
| 167 | 1390 | 0442 | 35016 | | 2778 | 14917 | | | | 081 | |
| 167 | 1414 | 0439 | 35014 | | 2778 | 14920 | | | | 081 | |
| 167 | 1438 | 0436 | 35016 | | 2778 | 14923 | | | | 081 | |

C-REF-NO 001 YR 1967 DEPTH 1433 WAVES 1 3223 AIR T 00.5 VIS 4
 CONS. NO 082 MONTH 3 MXSAMPD 14 WAVES 2 4945 WET B 00.0 STN
 LAT 62-484N DAY 22 NO.DPTH 16 WND-DIR 320 WW-CODE 26
 LON 27-305W HR 20.2 W-COLOR WND-SPD 08 CLD-TPE X
 MARSD SQ 219 C/I 1810 W-TRNSP BARO 1011.5 CLD-AMT 9 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 206 | 0003 | 0665 | 35154 | | 2761 | 14779 | | | | | 050 | |
| 202 | 0028 | 0671 | 35158 | | 2760 | 14786 | | | | | 052 | |
| 202 | 0076 | 0671 | 35158 | | 2760 | 14794 | | | | | 050 | |
| 202 | 0124 | 0671 | 35160 | | 2761 | 14802 | | | | | 052 | |
| 202 | 0219 | 0672 | 35159 | | 2760 | 14818 | | | | | 052 | |
| 202 | 0314 | 0672 | 35155 | | 2760 | 14833 | | | | | 053 | |
| 202 | 0506 | 0609 | 35084 | | 2763 | 14839 | | | | | 074 | |
| 202 | 0701 | 0547 | 35048 | | 2768 | 14846 | | | | | 082 | |
| 202 | 0898 | 0486 | 35046 | | 2775 | 14853 | | | | | 081 | |
| 202 | 1097 | 0444 | 35023 | | 2778 | 14869 | | | | | 079 | |
| 202 | 1195 | 0436 | 35020 | | 2778 | 14882 | | | | | 080 | |
| 202 | 1244 | 0431 | 35017 | | 2779 | 14888 | | | | | 081 | |
| 202 | 1292 | 0428 | 35013 | | 2779 | 14895 | | | | | 080 | |
| 202 | 1340 | 0425 | 35012 | | 2779 | 14902 | | | | | 082 | |
| 202 | 1364 | 0422 | 35006 | | 2779 | 14904 | | | | | 082 | |
| 202 | 1387 | 0415 | 35002 | | 2779 | 14905 | | | | | 084 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1815 | WAVES 1 3023 | AIR T 00.0 | VIS 8 |
| CONS. NO 083 | MONTH 3 | MXSAMPD 18 | WAVES 2 3023 | WET B -00.1 | STN |
| LAT 63-040N | DAY 22 | NO.DPTH 23 | WND-DIR 300 | WW-CODE 02 | |
| LOX 28-231W | HR 23.6 | W-COLOR | WND-SPD 11 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1011.5 | CLD-AMT 5 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|------|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 238 | 0001 | 0660 | 35158 | 671 | 2762 | 14777 | | | | | 048 | |
| 238 | 0039 | 0661 | 35156 | 664 | 2762 | 14784 | | | | | 049 | |
| 238 | 0087 | 0661 | 35155 | 669 | 2762 | 14792 | | | | | 048 | |
| 238 | 0134 | 0649 | 35140 | 662 | 2762 | 14794 | | | | | 054 | |
| 238 | 0182 | 0642 | 35128 | 660 | 2762 | 14799 | | | | | 054 | |
| 238 | 0278 | 0638 | 35124 | 662 | 2762 | 14813 | | | | | 055 | |
| 238 | 0373 | 0631 | 35120 | 668 | 2763 | 14826 | | | | | 053 | |
| 238 | 0469 | 0630 | 35118 | 665 | 2763 | 14842 | | | | | 054 | |
| 238 | 0564 | 0598 | 35073 | 637 | 2763 | 14844 | | | | | 064 | |
| 238 | 0660 | 0533 | 35026 | 595 | 2768 | 14833 | | | | | 081 | |
| 238 | 0755 | 0496 | 35008 | 600 | 2771 | 14833 | | | | | 086 | |
| 238 | 0852 | 0453 | 34984 | 614 | 2774 | 14831 | | | | | 086 | |
| 238 | 0948 | 0446 | 35004 | 624 | 2776 | 14845 | | | | | 082 | |
| 238 | 1045 | 0425 | 34997 | 631 | 2778 | 14852 | | | | | 081 | |
| 238 | 1141 | 0416 | 34994 | 633 | 2779 | 14864 | | | | | 081 | |
| 238 | 1238 | 0412 | 35001 | 637 | 2780 | 14879 | | | | | 084 | |
| *244 | 1374 | 0399 | 34992 | 640 | 2780 | 14896 | | | | | 085 | |
| *244 | 1474 | 0391 | 34986 | 641 | 2781 | 14910 | | | | | 086 | |
| *244 | 1575 | 0385 | 34982 | 641 | 2781 | 14924 | | | | | 087 | |
| *244 | 1624 | 0380 | 34981 | 642 | 2781 | 14930 | | | | | 091 | |
| *244 | 1673 | 0376 | 34976 | 641 | 2781 | 14937 | | | | | 092 | |
| *244 | 1722 | 0373 | 34974 | 641 | 2781 | 14944 | | | | | 096 | |
| *244 | 1771 | 0367 | 34974 | 641 | 2782 | 14949 | | | | | 096 | |

*MULTIPLE CAST CONTINUED NEXT DAY

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1783 | WAVES 1 2736 | AIR T 01.1 | VIS 8 |
| CONS. NO 084 | MONTH 3 | MXSAMPD 18 | WAVES 2 XX | WET B -00.4 | STN |
| LAT 63-195N | DAY 23 | NO.DPTH 24 | WND-DIR 270 | WW-CODE 02 | |
| LON 29-238W | HR 05.5 | W-COLOR | WND-SPD 17 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1009.8 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 045 | 0001 | 0668 | 35160 | 676 | 2761 | 14780 | | | | 045 | |
| 045 | 0050 | 0669 | 35161 | 660 | 2761 | 14789 | | | | 052 | |
| 045 | 0099 | 0670 | 35165 | 661 | 2761 | 14797 | | | | 046 | |
| 045 | 0149 | 0668 | 35154 | 657 | 2760 | 14804 | | | | 053 | |
| 045 | 0198 | 0668 | 35160 | 662 | 2761 | 14813 | | | | 045 | |
| 045 | 0298 | 0665 | 35154 | 662 | 2761 | 14828 | | | | 044 | |
| 045 | 0397 | 0666 | 35151 | 662 | 2761 | 14844 | | | | 047 | |
| 045 | 0495 | 0654 | 35135 | 661 | 2761 | 14856 | | | | 048 | |
| 045 | 0594 | 0576 | 35061 | 584 | 2765 | 14840 | | | | 077 | |
| 045 | 0692 | 0510 | 35012 | 599 | 2769 | 14829 | | | | 064 | |
| 045 | 0791 | 0471 | 35003 | 609 | 2773 | 14829 | | | | 076 | |
| 045 | 0889 | 0437 | 34983 | 624 | 2775 | 14831 | | | | 055 | |
| 045 | 0987 | | 34982 | 634 | | | | | | 074 | |
| 045 | 1087 | 0418 | 35003 | 635 | 2779 | 14856 | | | | 075 | |
| 045 | 1186 | 0409 | 34995 | 636 | 2779 | 14869 | | | | 078 | |
| 055 | 1282 | 0397 | 34983 | 641 | 2780 | 14880 | | | | 079 | |
| 045 | 1287 | 0398 | 34988 | 641 | 2780 | 14881 | | | | 060 | |
| 055 | 1381 | 0391 | 34984 | 642 | 2780 | 14894 | | | | 076 | |
| 055 | 1479 | 0384 | 34975 | 641 | 2780 | 14907 | | | | 081 | |
| 055 | 1577 | 0375 | 34973 | 641 | 2781 | 14920 | | | | 086 | |
| 055 | 1624 | 0374 | 34974 | 641 | 2781 | 14928 | | | | 086 | |
| 055 | 1671 | 0365 | 34969 | 642 | 2782 | 14932 | | | | 087 | |
| 055 | 1718 | 0361 | 34968 | 642 | 2782 | 14938 | | | | | |
| 055 | 1764 | 0358 | 34968 | 642 | 2783 | 14944 | | | | C91 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2176 | WAVES 1 2735 | AIR T -00.4 | VIS 8 |
| CONS. NO 085 | MONTH 3 | MXSAMPD 20 | WAVES 2 XX | WET B -00.5 | STN |
| LAT 63-328N | DAY 23 | NO.DPTH 26 | WND-DIR 270 | WW-CODE 01 | |
| LON 30-208W | HR 10.3 | W-COLOR | WND-SPD 12 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1006.6 | CLD-AMT 5 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 095 | 0001 | 0582 | 35085 | | 2766 | 14745 | | | | | 053 | |
| 095 | 0050 | 0583 | 35085 | | 2766 | 14753 | | | | | 052 | |
| 095 | 0098 | 0583 | 35082 | | 2766 | 14761 | | | | | 050 | |
| 095 | 0147 | 0586 | 35085 | | 2766 | 14770 | | | | | 052 | |
| 095 | 0196 | 0568 | 35058 | | 2766 | 14771 | | | | | 051 | |
| 095 | 0291 | 0570 | 35066 | | 2766 | 14787 | | | | | 057 | |
| 095 | 0385 | 0570 | 35064 | | 2766 | 14803 | | | | | 055 | |
| 095 | 0479 | 0568 | 35064 | | 2766 | 14818 | | | | | 056 | |
| 095 | 0574 | 0563 | 35056 | | 2766 | 14831 | | | | | 047 | |
| 095 | 0669 | 0526 | 35020 | | 2768 | 14831 | | | | | 072 | |
| 095 | 0766 | 0470 | 34971 | | 2771 | 14824 | | | | | 074 | |
| 095 | 0864 | 0468 | 35008 | | 2774 | 14840 | | | | | 074 | |
| 095 | 0963 | 0444 | 34993 | | 2775 | 14846 | | | | | 073 | |
| 095 | 1065 | 0404 | 34950 | | 2776 | 14846 | | | | | 077 | |
| 095 | 1168 | 0378 | 34934 | | 2778 | 14852 | | | | | 075 | |
| 102 | 1234 | 0384 | 34947 | | 2778 | 14866 | | | | | 079 | |
| 095 | 1273 | 0384 | 34951 | | 2779 | 14872 | | | | | 077 | |
| 102 | 1330 | 0374 | 34948 | | 2779 | 14878 | | | | | 079 | |
| 102 | 1426 | 0370 | 34944 | | 2779 | 14892 | | | | | 082 | |
| 102 | 1521 | 0366 | 34944 | | 2780 | 14906 | | | | | 080 | |
| 102 | 1618 | 0365 | 34948 | | 2780 | 14922 | | | | | 080 | |
| 102 | 1716 | 0362 | 34953 | | 2781 | 14938 | | | | | 085 | |
| 102 | 1814 | 0358 | 34956 | | 2782 | 14953 | | | | | 091 | |
| 102 | 1911 | 0352 | 34956 | | 2782 | 14967 | | | | | 089 | |
| 102 | 1962 | 0349 | 34960 | | 2783 | 14974 | | | | | | |
| 102 | 2011 | 0344 | 34948 | | 2782 | 14980 | | | | | C92 | |

| | | | | | | |
|--------------|----------|---------|----|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 2735 | AIR T -01.0 | VIS 8 |
| CONS. NO 086 | MONTH 3 | MXSAMPD | 27 | WAVES 2 XX | WET B -02.8 | STN |
| LAT 63-492N | DAY 23 | NO.DPTH | 28 | WND-DIR 270 | WW-CODE 02 | |
| LON 31-184W | HR 15.4 | W-COLOR | | WND-SPD 09 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | | BARO 1005.7 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 145 | 0001 | 0561 | 35062 | | 2767 | 14736 | | | | 058 | |
| 145 | 0050 | 0563 | 35063 | | 2767 | 14745 | | | | 059 | |
| 145 | 0100 | 0563 | 35062 | | 2767 | 14753 | | | | 058 | |
| 145 | 0150 | 0563 | 35065 | | 2767 | 14761 | | | | 060 | |
| 145 | 0199 | 0563 | 35060 | | 2767 | 14769 | | | | 059 | |
| 145 | 0299 | 0564 | 35065 | | 2767 | 14786 | | | | 061 | |
| 145 | 0398 | 0564 | 35064 | | 2767 | 14803 | | | | 059 | |
| 145 | 0497 | 0515 | 35000 | | 2768 | 14798 | | | | 074 | |
| 145 | 0596 | 0486 | 34989 | | 2770 | 14803 | | | | 084 | |
| 145 | 0694 | 0451 | 34971 | | 2773 | 14804 | | | | 084 | |
| 145 | 0793 | 0413 | 34937 | | 2774 | 14804 | | | | 084 | |
| 145 | 0891 | 0386 | 34918 | | 2776 | 14809 | | | | 081 | |
| 145 | 0990 | 0374 | 34914 | | 2777 | 14820 | | | | 080 | |
| 145 | 1089 | 0370 | 34917 | | 2777 | 14835 | | | | 081 | |
| 145 | 1188 | 0364 | 34914 | | 2778 | 14849 | | | | 081 | |
| 145 | 1286 | 0362 | 34926 | | 2779 | 14865 | | | | 082 | |
| 154 | 1430 | 0366 | 34938 | | 2779 | 14891 | | | | 086 | |
| 154 | 1628 | 0361 | 34951 | | 2781 | 14922 | | | | 092 | |
| 154 | 1827 | 0351 | 34956 | | 2782 | 14952 | | | | 096 | |
| 154 | 2026 | 0341 | 34960 | | 2784 | 14982 | | | | 103 | |
| 154 | 2227 | 0330 | 34958 | | 2784 | 15011 | | | | 106 | |
| 154 | 2426 | 0314 | 34952 | | 2786 | 15038 | | | | 110 | |
| 154 | 2526 | 0300 | 34948 | | 2787 | 15049 | | | | 109 | |
| 154 | 2576 | 0293 | 34944 | | 2787 | 15055 | | | | 107 | |
| 154 | 2625 | 0274 | 34929 | | 2787 | 15055 | | | | 094 | |
| 154 | 2675 | 0236 | 34913 | | 2789 | 15047 | | | | 084 | |
| 154 | 2700 | 0197 | 34896 | | 2791 | 15034 | | | | 067 | |
| 154 | 2724 | 0155 | 34896 | | 2794 | 15020 | | | | 063 | |

C-REF-NO 001 YR 1967 DEPTH 2676 WAVES 1 2935 AIR T -03.5 VIS 4
 CONS. NO 087 MONTH 3 MXSAMPD 26 WAVES 2 XX WET B -04.0 STN
 LAT 64-020N DAY 23 NO.DPTH 28 WNC-DIR 290 WW-CODE 26
 LON 32-177W HR 20.2 W-COLOR WND-SPD 05 CLD-TPE 9
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1004.9 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 192 | 0005 | 0558 | 35098 | 673 | 2770 | 14736 | | | | | 057 | |
| 192 | 0054 | 0561 | 35079 | 672 | 2769 | 14745 | | | | | 059 | |
| 192 | 0102 | 0562 | 35078 | 671 | 2768 | 14753 | | | | | 058 | |
| 192 | 0152 | 0562 | 35078 | 671 | 2768 | 14762 | | | | | 057 | |
| 192 | 0201 | 0562 | 35079 | 673 | 2768 | 14770 | | | | | 058 | |
| 192 | 0299 | 0562 | 35080 | 669 | 2768 | 14786 | | | | | 058 | |
| 192 | 0398 | 0562 | 35077 | 669 | 2768 | 14802 | | | | | 057 | |
| 192 | 0497 | 0466 | 34968 | 611 | 2771 | 14778 | | | | | 079 | |
| 192 | 0595 | 0444 | 34970 | 615 | 2774 | 14785 | | | | | 082 | |
| 192 | 0694 | 0415 | 34950 | 631 | 2775 | 14789 | | | | | 081 | |
| 192 | 0793 | 0389 | 34930 | 647 | 2776 | 14794 | | | | | 077 | |
| 192 | 0891 | 0378 | 34929 | 653 | 2777 | 14806 | | | | | 079 | |
| 192 | 0991 | 0370 | 34926 | 658 | 2778 | 14819 | | | | | 077 | |
| 192 | 1090 | 0368 | 34933 | 658 | 2779 | 14835 | | | | | 080 | |
| 192 | 1190 | 0363 | 34930 | 658 | 2779 | 14849 | | | | | 080 | |
| 192 | 1290 | 0365 | 34942 | 636 | 2780 | 14867 | | | | | 081 | |
| 202 | 1398 | 0367 | 34953 | 645 | 2780 | 14886 | | | | | 084 | |
| 202 | 1548 | 0359 | 34962 | 647 | 2782 | 14908 | | | | | 089 | |
| 202 | 1750 | 0348 | 34960 | 645 | 2783 | 14938 | | | | | 094 | |
| 202 | 1951 | 0334 | 34961 | 645 | 2784 | 14966 | | | | | 099 | |
| 202 | 2150 | 0322 | 34966 | 647 | 2786 | 14995 | | | | | 105 | |
| 202 | 2347 | 0310 | 34964 | 647 | 2787 | 15023 | | | | | 111 | |
| 202 | 2443 | 0301 | 34959 | 650 | 2787 | 15036 | | | | | 111 | |
| 202 | 2490 | 0294 | 34954 | 651 | 2788 | 15041 | | | | | 109 | |
| 202 | 2538 | 0282 | 34945 | 655 | 2788 | 15044 | | | | | 104 | |
| 202 | 2562 | 0275 | 34944 | 656 | 2788 | 15045 | | | | | 102 | |
| 202 | 2585 | 0265 | 34936 | 661 | 2789 | 15044 | | | | | 097 | |
| 202 | 2608 | 0258 | 34935 | 662 | 2789 | 15045 | | | | | 096 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2225 | WAVES 1 0323 | AIR T -04.5 | VIS 8 |
| CONS. NO 088 | MONTH 3 | MXSAMPD 22 | WAVES 2 XX | WET B -05.0 | STN |
| LAT 64-139N | DAY 23 | NO.DPTH 28 | WND-DIR 030 | WW-CODE 03 | |
| LON 37-107W | HR 23.2 | W-COLOR | WND-SPD 12 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1006.1 | CLD-AMT 4 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|------|-------|------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 234 | 0001 | 0558 | 35081 | | 2769 | 14735 | | | | 053 | |
| 234 | 0100 | 0557 | 35073 | | 2769 | 14751 | | | | 057 | |
| 234 | 0200 | 0557 | 35075 | | 2769 | 14767 | | | | 054 | |
| 234 | 0402 | 0566 | 35082 | | 2768 | 14804 | | | | 055 | |
| 234 | 0502 | 0551 | 35062 | | 2768 | 14815 | | | | 060 | |
| 234 | 0603 | 0468 | 34986 | | 2772 | 14796 | | | | 079 | |
| 234 | 0703 | 0446 | 34981 | | 2774 | 14804 | | | | 079 | |
| 234 | 0804 | 0405 | 34941 | | 2776 | 14803 | | | | 076 | |
| 234 | 0904 | 0384 | 34928 | | 2777 | 14810 | | | | 075 | |
| 234 | 1003 | 0373 | 34922 | | 2777 | 14822 | | | | 072 | |
| 234 | 1103 | 0369 | 34928 | | 2778 | 14837 | | | | 078 | |
| 234 | 1201 | 0364 | 34930 | | 2779 | 14852 | | | | 076 | |
| 234 | 1300 | 0364 | 34944 | | 2780 | 14868 | | | | 077 | |
| 234 | 1399 | 0363 | 34954 | | 2781 | 14885 | | | | 084 | |
| 234 | 1497 | 0362 | 34950 | | 2781 | 14901 | | | | 082 | |
| 234 | 1596 | 0356 | 34957 | | 2782 | 14915 | | | | 086 | |
| *242 | 1717 | 0351 | 34962 | | 2783 | 14933 | | | | 089 | |
| *242 | 1818 | 0342 | 34964 | | 2784 | 14947 | | | | 091 | |
| *242 | 1869 | 0340 | 34962 | | 2784 | 14954 | | | | 095 | |
| *242 | 1919 | 0339 | 34964 | | 2784 | 14963 | | | | 096 | |
| *242 | 1970 | 0334 | 34960 | | 2784 | 14969 | | | | 092 | |
| *242 | 2020 | 0299 | 34936 | | 2786 | 14962 | | | | 072 | |
| *242 | 2046 | 0272 | 34923 | | 2787 | 14955 | | | | 062 | |
| *242 | 2071 | 0251 | 34913 | | 2788 | 14950 | | | | 061 | |
| *242 | 2097 | 0235 | 34914 | | 2790 | 14948 | | | | 055 | |
| *242 | 2122 | 0208 | 34927 | | 2793 | 14941 | | | | 060 | |
| *242 | 2148 | 0150 | 34914 | | 2796 | 14919 | | | | 044 | |
| *242 | 2173 | 0146 | 34912 | | 2796 | 14922 | | | | 044 | |

*MULTIPLE CAST CONTINUED NEXT DAY

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1826 | WAVES 1 0225 | AIR T -04.0 | VIS 5 |
| CONS. NO 089 | MONTH 3 | MXSAMPD 18 | WAVES 2 XX | WET B -04.3 | STN |
| LAT 64-235N | DAY 24 | NO.DPTH 25 | WND-DIR 020 | WW-CODE 26 | |
| LON 33-493W | HR 06.4 | W-COLOR | WND-SPD 15 | CLD-TPE 9 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1007.2 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 055 | 0001 | 0543 | 35076 | | 2771 | 14729 | | | | 058 | |
| 075 | 0050 | 0552 | 35074 | | 2769 | 14741 | | | | 055 | |
| 075 | 0100 | 0552 | 35074 | | 2769 | 14749 | | | | 055 | |
| 075 | 0150 | 0554 | 35073 | | 2769 | 14758 | | | | 058 | |
| 075 | 0199 | 0554 | 35073 | | 2769 | 14766 | | | | 055 | |
| 075 | 0299 | 0555 | 35077 | | 2769 | 14783 | | | | 057 | |
| 075 | 0400 | 0558 | 35078 | | 2769 | 14801 | | | | 056 | |
| 046 | 0406 | 0557 | 35078 | | 2769 | 14801 | | | | | |
| 075 | 0500 | 0559 | 35078 | | 2769 | 14818 | | | | 057 | |
| 075 | 0600 | 0559 | 35078 | | 2769 | 14834 | | | | 060 | |
| 075 | 0699 | 0475 | 34989 | | 2772 | 14815 | | | | 077 | |
| 075 | 0799 | 0446 | 34976 | | 2774 | 14819 | | | | 080 | |
| 075 | 0899 | 0420 | 34963 | | 2776 | 14825 | | | | 079 | |
| 075 | 0999 | 0401 | 34952 | | 2777 | 14834 | | | | 079 | |
| 075 | 1098 | 0387 | 34945 | | 2778 | 14844 | | | | 078 | |
| 075 | 1196 | 0381 | 34950 | | 2779 | 14858 | | | | 082 | |
| 075 | 1292 | 0372 | 34945 | | 2779 | 14870 | | | | 080 | |
| 064 | 1302 | 0367 | 34952 | | 2780 | 14870 | | | | 079 | |
| 064 | 1468 | 0331 | 34913 | | 2781 | 14882 | | | | 052 | |
| 064 | 1545 | 0284 | 34888 | | 2783 | 14875 | | | | 055 | |
| 064 | 1614 | 0261 | 34893 | | 2786 | 14877 | | | | 048 | |
| 064 | 1675 | 0221 | 34932 | | 2792 | 14870 | | | | 058 | |
| 064 | 1725 | 0169 | 34922 | | 2795 | 14856 | | | | 050 | |
| 064 | 1745 | 0149 | 34925 | | 2797 | 14851 | | | | 052 | |
| 064 | 1764 | 0148 | 34925 | | 2797 | 14853 | | | | 051 | |

C-REF-NO 001 YR 1967 DEPTH 1549 WAVES 1 0327 AIR T -07.0 VIS 7
 CONS. NO 090 MONTH 3 MXSAMPD 15 WAVES 2 XX WET B -07.3 STN
 LAT 64-300N DAY 24 NO.DPTH 22 WND-DIR 020 WW-CODE 03
 LON 34-215W HR 09.6 W-COLOR WND-SPD 17 CLD-TPE 6
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1011.9 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 100 | 0001 | 0584 | 35134 | 681 | 2770 | 14746 | | | | | 050 | |
| 100 | 0050 | 0588 | 35124 | 674 | 2769 | 14756 | | | | | 052 | |
| 100 | 0099 | 0587 | 35124 | 676 | 2769 | 14764 | | | | | 052 | |
| 100 | 0197 | 0578 | 35112 | 674 | 2769 | 14776 | | | | | 053 | |
| 100 | 0294 | 0573 | 35104 | 675 | 2769 | 14790 | | | | | 055 | |
| 100 | 0391 | 0562 | 35090 | 678 | 2769 | 14801 | | | | | 058 | |
| 100 | 0487 | 0560 | 35084 | 677 | 2769 | 14816 | | | | | 054 | |
| 100 | 0583 | 0550 | 35075 | 683 | 2770 | 14828 | | | | | 052 | |
| 100 | 0680 | 0473 | 35000 | 614 | 2773 | 14811 | | | | | 078 | |
| 100 | 0777 | 0429 | 34973 | 627 | 2776 | 14809 | | | | | 079 | |
| 100 | 0874 | 0392 | 34951 | 650 | 2778 | 14809 | | | | | 078 | |
| 100 | 0972 | 0390 | 34962 | 648 | 2779 | 14825 | | | | | 080 | |
| 100 | 1069 | 0376 | 34966 | 653 | 2781 | 14835 | | | | | 081 | |
| 100 | 1166 | 0363 | 34966 | 653 | 2782 | 14846 | | | | | 084 | |
| 107 | 1263 | 0351 | 34954 | 655 | 2782 | 14857 | | | | | 079 | |
| 107 | 1314 | 0325 | 34924 | 678 | 2782 | 14854 | | | | | 064 | |
| 107 | 1341 | 0323 | 34927 | 673 | 2783 | 14858 | | | | | 068 | |
| 107 | 1368 | 0312 | 34920 | 678 | 2783 | 14857 | | | | | 065 | |
| 107 | 1394 | 0285 | 34918 | 689 | 2785 | 14850 | | | | | 055 | |
| 107 | 1421 | 0249 | 34924 | 688 | 2789 | 14839 | | | | | 062 | |
| 107 | 1447 | 0202 | 34906 | 717 | 2792 | 14823 | | | | | 048 | |
| 107 | 1475 | 0195 | 34906 | 707 | 2792 | 14825 | | | | | 048 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1255 | WAVES 1 0337 | AIR T -08.8 | VIS 8 |
| CONS. NO 091 | MONTH 3 | MXSAMPD 12 | WAVES 2 XX | WET B -09.0 | STN |
| LAT 64-391N | DAY 24 | NO.DPTH 17 | WND-DIR 030 | WW-CODE 01 | |
| LON 34-506W | HR 13.1 | W-COLOR | WND-SPD 20 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1014.5 | CLD-AMT 3 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 131 | 0004 | 0565 | 35086 | 688 | 2769 | 14739 | | | | 050 | |
| 131 | 0083 | 0566 | 35088 | 673 | 2769 | 14752 | | | | 048 | |
| 131 | 0182 | 0567 | 35086 | 673 | 2768 | 14769 | | | | 048 | |
| 131 | 0281 | 0568 | 35085 | 674 | 2768 | 14785 | | | | 052 | |
| 131 | 0380 | 0569 | 35086 | 676 | 2768 | 14802 | | | | 053 | |
| 131 | 0479 | 0558 | 35073 | 657 | 2768 | 14814 | | | | 055 | |
| 131 | 0578 | 0486 | 35008 | 611 | 2772 | 14800 | | | | 069 | |
| 131 | 0678 | 0419 | 34944 | 678 | 2774 | 14788 | | | | 052 | |
| 131 | 0778 | 0366 | 34922 | 673 | 2778 | 14782 | | | | 055 | |
| 131 | 0929 | 0355 | 34933 | 668 | 2780 | 14802 | | | | 062 | |
| 131 | 0980 | 0347 | 34926 | 673 | 2780 | 14807 | | | | 062 | |
| 131 | 1030 | 0336 | 34924 | 674 | 2781 | 14811 | | | | 065 | |
| 131 | 1079 | 0323 | 34924 | 678 | 2782 | 14814 | | | | 065 | |
| 131 | 1130 | 0284 | 34908 | 687 | 2785 | 14805 | | | | 059 | |
| 131 | 1179 | 0204 | 34898 | 706 | 2791 | 14779 | | | | 048 | |
| 131 | 1204 | 0205 | 34900 | 669 | 2791 | 14783 | | | | 048 | |
| 131 | 1229 | 0203 | 34902 | 693 | 2791 | 14787 | | | | 047 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 248 | WAVES 1 0222 | AIR T -09.0 | VIS 8 |
| CONS. NO 092 | MONTH 3 | MXSAMPD 02 | WAVES 2 XX | WET B -09.7 | STN |
| LAT 64-497N | DAY 24 | NO.DPTH 9 | WND-DIR 020 | WW-CODE 01 | |
| LON 35-335W | HR 16.0 | W-COLOR | WND-SPD 14 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1017.1 | CLD-AMT 1 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 160 | 0003 | 0492 | 34974 | | 2769 | 14707 | | | | 050 | |
| 160 | 0022 | 0500 | 34976 | | 2768 | 14714 | | | | 047 | |
| 160 | 0072 | 0529 | 35028 | | 2768 | 14734 | | | | 051 | |
| 160 | 0097 | 0532 | 35037 | | 2769 | 14740 | | | | 047 | |
| 160 | 0122 | 0546 | 35063 | | 2769 | 14750 | | | | 048 | |
| 160 | 0146 | 0523 | 35039 | | 2770 | 14744 | | | | 048 | |
| 160 | 0170 | 0468 | 34994 | | 2773 | 14725 | | | | 047 | |
| 160 | 0195 | 0407 | 34947 | | 2776 | 14703 | | | | 045 | |
| 160 | 0221 | 0401 | 34944 | | 2776 | 14705 | | | | 043 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 302 | WAVES 1 0223 | AIR T -08.0 | VIS 8 |
| CONS. NO 093 | MONTH 3 | MXSAMPD 03 | WAVES 2 XX | WET B -08.3 | STN |
| LAT 63-497N | DAY 24 | NO.DPTH 8 | WND-DIR 020 | WW-CODE 02 | |
| LON 37-395W | HR 22.7 | W-COLOR | WND-SPD 10 | CLD-TPE X | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1018.4 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|-------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 227 | 0001 | -0119 | 33390 | | 2688 | 14416 | | | | 039 | |
| 227 | 0051 | -0002 | 33824 | | 2718 | 14484 | | | | 040 | |
| 227 | 0102 | 0173 | 34300 | | 2745 | 14578 | | | | 047 | |
| 227 | 0153 | 0298 | 34586 | | 2758 | 14645 | | | | 050 | |
| 227 | 0204 | 0363 | 34749 | | 2765 | 14683 | | | | 055 | |
| 227 | 0233 | 0380 | 34796 | | 2767 | 14696 | | | | 052 | |
| 227 | 0263 | 0401 | 34865 | | 2770 | 14710 | | | | 055 | |
| 227 | 0282 | 0403 | 34867 | | 2770 | 14714 | | | | 056 | |

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|--------------|----------|------------|--|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 3422 | AIR T -05.1 | VIS 8 |
| CONS. NO 094 | MONTH 3 | MXSAMPD 13 | | WAVES 2 XX | WET B -05.4 | STN |
| LAT 63-392N | DAY 25 | NO.DPTH 17 | | WND-DIR 340 | WW-CODE 02 | |
| LON 37-088W | HR 03.2 | W-COLOR | | WND-SPD 10 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | | BARO 1018.5 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 032 | 0001 | 0472 | 35001 | 699 | 2773 | 14699 | | | | 061 | |
| 032 | 0060 | 0474 | 34998 | 696 | 2772 | 14709 | | | | 064 | |
| 032 | 0160 | 0469 | 34988 | 697 | 2772 | 14724 | | | | 062 | |
| 032 | 0363 | 0464 | 34984 | 699 | 2773 | 14755 | | | | 062 | |
| 032 | 0564 | 0436 | 34952 | 699 | 2773 | 14776 | | | | 060 | |
| 023 | 0603 | 0435 | 34949 | | 2773 | 14782 | | | | | |
| 032 | 0764 | 0421 | 34954 | 680 | 2775 | 14803 | | | | 067 | |
| 032 | 0864 | 0394 | 34943 | 680 | 2777 | 14808 | | | | 069 | |
| 032 | 0964 | 0365 | 34931 | 678 | 2779 | 14812 | | | | 072 | |
| 032 | 1013 | 0356 | 34930 | 678 | 2780 | 14817 | | | | 072 | |
| 032 | 1063 | 0342 | 34927 | 678 | 2781 | 14819 | | | | 072 | |
| 032 | 1113 | 0336 | 34922 | 678 | 2781 | 14825 | | | | 071 | |
| 032 | 1163 | 0330 | 34925 | 678 | 2782 | 14831 | | | | 072 | |
| 032 | 1187 | 0327 | 34925 | 676 | 2782 | 14834 | | | | 077 | |
| 032 | 1212 | 0319 | 34933 | 670 | 2784 | 14834 | | | | 083 | |
| 032 | 1237 | 0314 | 34928 | 673 | 2784 | 14836 | | | | 082 | |
| 032 | 1261 | 0299 | 34918 | 686 | 2784 | 14834 | | | | 070 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1810 | WAVES 1 3623 | AIR T -06.0 | VIS 8 |
| CONS. NO 095 | MONTH 3 | MXSAMPD 18 | WAVES 2 XX | WET B -06.2 | STN |
| LAT 63-312N | DAY 25 | NO.DPTH 27 | WND-DIR 360 | WW-CODE 03 | |
| LON 36-350W | HR 08.7 | W-COLOR | WND-SPD 08 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1016.8 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 071 | 0001 | 0532 | 35072 | | 2772 | 14724 | | | | 059 | |
| 071 | 0050 | 0532 | 35070 | | 2771 | 14732 | | | | 060 | |
| 071 | 0098 | 0523 | 35060 | | 2772 | 14737 | | | | 060 | |
| 071 | 0148 | 0510 | 35040 | | 2772 | 14739 | | | | 057 | |
| 064 | 0154 | 0499 | 35028 | | 2772 | 14735 | | | | | |
| 071 | 0196 | 0501 | 35027 | | 2772 | 14743 | | | | 058 | |
| 071 | 0295 | 0475 | 35000 | | 2773 | 14748 | | | | 056 | |
| 071 | 0393 | 0445 | 34970 | | 2774 | 14752 | | | | 062 | |
| 071 | 0491 | 0432 | 34959 | | 2774 | 14762 | | | | 063 | |
| 071 | 0589 | 0402 | 34950 | | 2777 | 14766 | | | | 066 | |
| 071 | 0686 | 0380 | 34942 | | 2778 | 14773 | | | | 071 | |
| 071 | 0784 | 0361 | 34945 | | 2780 | 14781 | | | | 076 | |
| 071 | 0881 | 0355 | 34940 | | 2781 | 14794 | | | | 075 | |
| 071 | 0979 | 0336 | 34929 | | 2782 | 14803 | | | | 072 | |
| 071 | 1075 | 0319 | 34926 | | 2783 | 14811 | | | | 072 | |
| 071 | 1173 | 0298 | 34914 | | 2784 | 14819 | | | | 069 | |
| 071 | 1271 | 0279 | 34901 | | 2785 | 14827 | | | | 059 | |
| 087 | 1401 | 0279 | 34906 | | 2785 | 14849 | | | | 064 | |
| 087 | 1500 | 0271 | 34905 | | 2786 | 14862 | | | | 064 | |
| 087 | 1549 | 0254 | 34902 | | 2787 | 14863 | | | | 057 | |
| 087 | 1599 | 0251 | 34898 | | 2787 | 14870 | | | | 052 | |
| 087 | 1647 | 0244 | 34912 | | 2789 | 14875 | | | | 057 | |
| 087 | 1695 | 0235 | 34914 | | 2790 | 14879 | | | | 062 | |
| 087 | 1719 | 0231 | 34912 | | 2790 | 14882 | | | | 060 | |
| 087 | 1742 | 0228 | 34912 | | 2790 | 14884 | | | | 057 | |
| 087 | 1767 | 0211 | 34908 | | 2791 | 14881 | | | | 053 | |
| 087 | 1790 | 0197 | 34917 | | 2793 | 14879 | | | | 053 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2170 | WAVES 1 0134 | AIR T -04.6 | VIS 8 |
| CONS. NO 096 | MONTH 3 | MXSAMPD 21 | WAVES 2 4945 | WET B -05.0 | STN |
| LAT 63-248N | DAY 25 | NO.DPTH 28 | WND-DIR 010 | WW-CODE 02 | |
| LOX 35-583W | HR 11.8 | W-COLOR | WND-SPD 09 | CLD-TPE 6 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1016.1 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 011 | 0001 | 0535 | 35064 | | 2771 | 14726 | | | | 064 | |
| 011 | 0099 | 0535 | 35065 | | 2771 | 14742 | | | | 061 | |
| 011 | 0198 | 0536 | 35064 | | 2770 | 14758 | | | | 060 | |
| 011 | 0298 | 0536 | 35066 | | 2771 | 14775 | | | | 061 | |
| 011 | 0397 | 0538 | 35062 | | 2770 | 14792 | | | | 064 | |
| 011 | 0496 | 0533 | 35056 | | 2770 | 14806 | | | | 065 | |
| 011 | 0595 | 0499 | 35015 | | 2771 | 14808 | | | | 064 | |
| 011 | 0695 | 0454 | 34984 | | 2774 | 14806 | | | | 077 | |
| 011 | 0795 | 0414 | 34954 | | 2776 | 14805 | | | | 075 | |
| 011 | 0894 | 0394 | 34943 | | 2777 | 14813 | | | | 076 | |
| 011 | 0995 | 0374 | 34930 | | 2778 | 14821 | | | | 081 | |
| 011 | 1095 | 0369 | 34938 | | 2779 | 14836 | | | | 085 | |
| 011 | 1195 | 0366 | 34943 | | 2780 | 14852 | | | | 083 | |
| 011 | 1293 | 0365 | 34950 | | 2780 | 14868 | | | | 087 | |
| 115 | 1419 | 0339 | 34920 | | 2781 | 14877 | | | | 070 | |
| 115 | 1521 | 0338 | 34929 | | 2781 | 14894 | | | | 075 | |
| 115 | 1623 | 0319 | 34922 | | 2783 | 14903 | | | | 072 | |
| 115 | 1725 | 0299 | 34932 | | 2785 | 14912 | | | | 082 | |
| 115 | 1826 | 0266 | 34917 | | 2787 | 14915 | | | | 066 | |
| 115 | 1877 | 0239 | 34914 | | 2789 | 14912 | | | | 065 | |
| 115 | 1927 | 0208 | 34914 | | 2792 | 14907 | | | | 064 | |
| 115 | 1977 | 0171 | 34913 | | 2795 | 14899 | | | | 058 | |
| 115 | 2002 | 0165 | 34915 | | 2795 | 14901 | | | | 062 | |
| 115 | 2026 | 0156 | 34916 | | 2796 | 14901 | | | | 058 | |
| 115 | 2051 | 0154 | 34917 | | 2796 | 14905 | | | | 057 | |
| 115 | 2075 | 0153 | 34919 | | 2796 | 14908 | | | | 058 | |
| 115 | 2100 | 0153 | 34917 | | 2796 | 14913 | | | | 070 | |
| 115 | 2124 | 0153 | 34919 | | 2796 | 14917 | | | | 060 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2415 | WAVES 1 0122 | AIR T -05.1 | VIS 8 |
| CONS. NO 097 | MONTH 3 | MXSAMPD 24 | WAVES 2 0445 | WET B -05.5 | STN |
| LAT 63-185N | DAY 25 | NO-DPTH 28 | WND-DIR 010 | WW-CODE 26 | |
| LON 35-325W | HR 15.1 | W-COLOR | WND-SPD 09 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1016.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 142 | 0001 | 0531 | 35046 | 678 | 2770 | 14724 | | | | | 069 | |
| 142 | 0100 | 0532 | 35047 | 677 | 2770 | 14740 | | | | | 070 | |
| 142 | 0200 | 0532 | 35044 | 677 | 2769 | 14757 | | | | | 070 | |
| 142 | 0300 | 0533 | 35046 | 677 | 2769 | 14774 | | | | | 068 | |
| 142 | 0402 | 0532 | 35042 | 675 | 2769 | 14790 | | | | | 070 | |
| 142 | 0502 | 0531 | 35040 | 675 | 2769 | 14806 | | | | | 068 | |
| 142 | 0602 | 0472 | 34982 | 614 | 2771 | 14798 | | | | | 088 | |
| 142 | 0702 | 0440 | 34960 | 618 | 2773 | 14801 | | | | | 091 | |
| 142 | 0803 | 0411 | 34945 | 634 | 2775 | 14805 | | | | | 091 | |
| 142 | 0903 | 0395 | 34938 | 645 | 2776 | 14815 | | | | | 088 | |
| 142 | 1003 | 0382 | 34929 | 652 | 2777 | 14826 | | | | | 087 | |
| 142 | 1103 | 0372 | 34927 | 657 | 2778 | 14839 | | | | | 087 | |
| 142 | 1201 | 0368 | 34933 | 657 | 2779 | 14853 | | | | | 089 | |
| 142 | 1301 | 0366 | 34936 | 657 | 2779 | 14869 | | | | | 091 | |
| 142 | 1400 | 0367 | 34945 | 653 | 2780 | 14886 | | | | | 092 | |
| 142 | 1498 | 0365 | 34950 | 650 | 2780 | 14902 | | | | | 095 | |
| 151 | 1677 | 0356 | 34956 | 645 | 2782 | 14929 | | | | | 102 | |
| 151 | 1779 | 0349 | 34957 | 647 | 2783 | 14943 | | | | | 104 | |
| 151 | 1983 | 0326 | 34948 | 652 | 2784 | 14968 | | | | | 104 | |
| 151 | 2083 | 0303 | 34942 | 654 | 2786 | 14975 | | | | | 104 | |
| 151 | 2183 | 0202 | 34887 | 690 | 2790 | 14948 | | | | | 082 | |
| 151 | 2233 | 0182 | 34890 | 695 | 2792 | 14948 | | | | | 070 | |
| 151 | 2258 | 0163 | 34903 | 699 | 2794 | 14944 | | | | | 066 | |
| 151 | 2282 | 0131 | 34908 | 705 | 2797 | 14934 | | | | | 061 | |
| 151 | 2307 | 0121 | 34918 | 704 | 2799 | 14934 | | | | | 063 | |
| 151 | 2332 | 0111 | 34914 | 705 | 2799 | 14934 | | | | | 063 | |
| 151 | 2357 | 0108 | 34915 | 705 | 2799 | 14937 | | | | | 061 | |
| 151 | 2381 | 0101 | 34912 | 706 | 2800 | 14938 | | | | | 061 | |

C-REF-NO 001 YR 1967 DEPTH 2710 WAVES 1 0223 AIR T -04.3 VIS 6
 CONS. NO 098 MONTH 3 MXSAMPD 27 WAVES 2 4935 WET B -04.7 STN
 LAT 63-031N DAY 25 NO.DPTH 28 WND-DIR 020 WW-CODE 26
 LON 34-337W HR 20.0 W-COLOR WND-SPD 09 CLD-TPE 8
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1014.5 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 190 | 0001 | 0522 | 35030 | 683 | 2769 | 14720 | | | | 070 | |
| 190 | 0099 | 0525 | 35032 | 678 | 2769 | 14737 | | | | 069 | |
| 190 | 0198 | 0527 | 35033 | 678 | 2769 | 14754 | | | | 068 | |
| 190 | 0298 | 0527 | 35036 | 676 | 2769 | 14771 | | | | 067 | |
| 190 | 0398 | 0528 | 35034 | 677 | 2769 | 14788 | | | | 069 | |
| 190 | 0498 | 0488 | 34985 | 628 | 2770 | 14787 | | | | 083 | |
| 190 | 0599 | 0430 | 34945 | 623 | 2773 | 14779 | | | | 086 | |
| 190 | 0699 | 0405 | 34934 | 634 | 2775 | 14785 | | | | 091 | |
| 190 | 0798 | 0383 | 34920 | 650 | 2776 | 14792 | | | | 089 | |
| 190 | 0898 | 0368 | 34908 | 659 | 2777 | 14802 | | | | 086 | |
| 190 | 0998 | 0367 | 34918 | 647 | 2778 | 14819 | | | | 087 | |
| 190 | 1098 | 0361 | 34918 | 661 | 2778 | 14833 | | | | 087 | |
| 190 | 1196 | 0359 | 34922 | 654 | 2779 | 14849 | | | | 087 | |
| 190 | 1295 | 0360 | 34939 | 653 | 2780 | 14866 | | | | 093 | |
| 190 | 1394 | 0362 | 34952 | 647 | 2781 | 14883 | | | | 096 | |
| 190 | 1491 | 0358 | 34953 | 649 | 2781 | 14898 | | | | 097 | |
| 199 | 1673 | 0349 | 34955 | 642 | 2782 | 14925 | | | | 102 | |
| 199 | 1873 | 0334 | 34958 | 647 | 2784 | 14953 | | | | 105 | |
| 199 | 2072 | 0322 | 34960 | 646 | 2785 | 14981 | | | | 112 | |
| 199 | 2173 | 0316 | 34959 | 645 | 2786 | 14996 | | | | 116 | |
| 199 | 2273 | 0306 | 34954 | 647 | 2786 | 15009 | | | | 115 | |
| 199 | 2373 | 0295 | 34951 | | 2787 | 15021 | | | | 118 | |
| 199 | 2423 | 0282 | 34940 | 652 | 2788 | 15024 | | | | 113 | |
| 199 | 2473 | 0258 | 34927 | 663 | 2789 | 15022 | | | | 103 | |
| 199 | 2523 | 0217 | 34898 | 678 | 2790 | 15013 | | | | 083 | |
| 199 | 2574 | 0161 | 34883 | 697 | 2793 | 14997 | | | | 065 | |
| 199 | 2624 | 0129 | 34871 | 705 | 2794 | 14991 | | | | 057 | |
| 199 | 2674 | 0105 | 34894 | 704 | 2798 | 14990 | | | | 059 | |

C-REF-NO 001 YR 1967 DEPTH 2870 WAVES 1 0226 AIR T -03.0 VIS 8
 CONS. NO 099 MONTH 3 MXSAMPD 28 WAVES 2 XX WET B -04.0 STN
 LAT 62-485N DAY 25 NO.DPTH 28 WND-DIR 030 WW-CODE 85
 LON 33-340W HR 23.5 W-COLOR WND-SPD 15 CLD-TPE 8
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1015.8 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|------|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 238 | 0001 | 0532 | 35029 | 689 | 2768 | 14724 | | | | | 064 | |
| 238 | 0100 | 0532 | 35025 | | 2768 | 14740 | | | | | 069 | |
| 238 | 0299 | 0533 | 35024 | 652 | 2768 | 14773 | | | | | 061 | |
| 238 | 0497 | 0523 | 35009 | 621 | 2768 | 14802 | | | | | 066 | |
| 238 | 0695 | 0446 | 34953 | 621 | 2772 | 14802 | | | | | 087 | |
| 238 | 0795 | 0400 | 34926 | 634 | 2775 | 14799 | | | | | 083 | |
| 238 | 0893 | 0389 | 34920 | | 2776 | 14811 | | | | | 085 | |
| 238 | 0993 | 0374 | 34909 | 615 | 2776 | 14821 | | | | | 085 | |
| 238 | 1093 | 0368 | 34913 | 637 | 2777 | 14835 | | | | | 082 | |
| 238 | 1193 | 0362 | 34915 | 614 | 2778 | 14849 | | | | | 085 | |
| 238 | 1291 | 0357 | 34919 | 650 | 2779 | 14864 | | | | | 085 | |
| 238 | 1390 | 0361 | 34936 | 647 | 2780 | 14882 | | | | | 085 | |
| 238 | 1489 | 0365 | 34951 | 648 | 2780 | 14901 | | | | | 089 | |
| 238 | 1585 | 0363 | 34955 | 648 | 2781 | 14916 | | | | | 092 | |
| 238 | 1682 | 0358 | 34968 | 626 | 2783 | 14930 | | | | | 094 | |
| 238 | 1776 | 0350 | 34956 | 653 | 2782 | 14943 | | | | | 092 | |
| *246 | 1946 | 0343 | 34962 | 648 | 2784 | 14969 | | | | | 098 | |
| *246 | 2046 | 0336 | 34962 | 641 | 2784 | 14983 | | | | | 103 | |
| *246 | 2147 | 0330 | 34963 | 641 | 2785 | 14998 | | | | | 104 | |
| *246 | 2247 | 0322 | 34956 | 640 | 2785 | 15011 | | | | | 105 | |
| *246 | 2346 | 0314 | 34958 | 652 | 2786 | 15025 | | | | | 110 | |
| *246 | 2445 | 0306 | 34957 | 650 | 2787 | 15038 | | | | | 110 | |
| *246 | 2544 | 0294 | 34950 | 653 | 2787 | 15050 | | | | | 110 | |
| *246 | 2641 | 0260 | 34922 | 665 | 2788 | 15052 | | | | | 093 | |
| *246 | 2690 | 0227 | 34900 | 678 | 2789 | 15046 | | | | | 079 | |
| *246 | 2739 | 0193 | 34900 | 683 | 2792 | 15040 | | | | | 068 | |
| *246 | 2787 | 0158 | 34900 | 696 | 2795 | 15033 | | | | | 065 | |
| *246 | 2835 | 0124 | 34900 | 698 | 2797 | 15026 | | | | | 066 | |

*MULTIPLE CAST CONTINUED NEXT DAY

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2938 | WAVES 1 3635 | AIR T -01.7 | VIS 8 |
| CONS. NO 100 | MONTH 3 | MXSAMPD 29 | WAVES 2 3657 | WET B -02.1 | STN |
| LAT 62-331N | DAY 26 | NO.DPTH 28 | WND-DIR 360 | WW-CODE 26 | |
| LON 32-360W | HR 05.9 | W-COLOR | WND-SPD 16 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1015.2 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 048 | 0001 | 0515 | 35024 | 681 | 2770 | 14717 | | | | | 070 | |
| 048 | 0100 | 0514 | 35016 | 626 | 2769 | 14733 | | | | | 069 | |
| 048 | 0299 | 0476 | 34971 | 611 | 2770 | 14749 | | | | | 077 | |
| 048 | 0498 | 0432 | 34941 | 610 | 2773 | 14763 | | | | | 084 | |
| 048 | 0697 | 0394 | 34923 | 620 | 2775 | 14780 | | | | | 086 | |
| 048 | 0797 | 0378 | 34914 | 623 | 2776 | 14790 | | | | | 082 | |
| 048 | 0897 | 0371 | 34915 | 654 | 2777 | 14804 | | | | | 084 | |
| 048 | 0998 | 0365 | 34915 | 656 | 2778 | 14818 | | | | | 089 | |
| 048 | 1099 | 0365 | 34926 | 624 | 2778 | 14835 | | | | | 091 | |
| 048 | 1199 | 0364 | 34937 | 647 | 2779 | 14851 | | | | | 092 | |
| 048 | 1299 | 0364 | 34945 | 636 | 2780 | 14868 | | | | | 097 | |
| 048 | 1400 | 0358 | 34945 | 651 | 2781 | 14883 | | | | | 096 | |
| 048 | 1498 | 0356 | 34954 | 647 | 2782 | 14898 | | | | | 099 | |
| 048 | 1597 | 0352 | 34955 | 649 | 2782 | 14913 | | | | | 099 | |
| 048 | 1694 | 0345 | 34954 | 648 | 2783 | 14927 | | | | | 101 | |
| 048 | 1790 | 0340 | 34956 | 641 | 2783 | 14941 | | | | | 111 | |
| 059 | 1997 | 0330 | 34961 | 648 | 2785 | 14972 | | | | | 099 | |
| 059 | 2101 | 0324 | 34962 | 647 | 2785 | 14987 | | | | | 116 | |
| 059 | 2205 | 0318 | 34963 | 646 | 2786 | 15002 | | | | | 121 | |
| 059 | 2308 | 0312 | 34962 | 628 | 2787 | 15017 | | | | | 121 | |
| 059 | 2410 | 0306 | 34958 | 642 | 2787 | 15032 | | | | | 121 | |
| 059 | 2512 | 0299 | 34954 | 638 | 2787 | 15047 | | | | | 121 | |
| 059 | 2611 | 0290 | 34952 | 647 | 2788 | 15060 | | | | | 122 | |
| 059 | 2708 | 0265 | 34938 | 662 | 2789 | 15066 | | | | | 114 | |
| 059 | 2755 | 0240 | 34924 | 661 | 2790 | 15063 | | | | | 097 | |
| 059 | 2802 | 0217 | 34912 | 674 | 2791 | 15061 | | | | | 090 | |
| 059 | 2848 | 0197 | 34905 | 683 | 2792 | 15060 | | | | | 086 | |
| 059 | 2893 | 0171 | 34898 | 683 | 2793 | 15057 | | | | | 075 | |

| | | | | | | |
|--------------|----------|------------|--|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 0148 | AIR T -01.0 | VIS 6 |
| CONS. NO 101 | MONTH 3 | MXSAMPD 27 | | WAVES 2 0659 | WET B -01.0 | STN |
| LAT 62-165N | DAY 26 | NO.DPTH 28 | | WND-DIR 010 | WW-CODE 03 | |
| LON 31-393W | HR 11.1 | W-COLOR | | WND-SPD 20 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | | BARO 1014.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 102 | 0001 | 0583 | 35063 | 698 | 2765 | 14745 | | | | | 060 | |
| 102 | 0099 | 0584 | 35064 | 674 | 2764 | 14762 | | | | | 058 | |
| 102 | 0298 | 0586 | 35065 | 677 | 2764 | 14795 | | | | | 057 | |
| 102 | 0495 | 0588 | 35063 | 678 | 2764 | 14828 | | | | | 053 | |
| 102 | 0693 | 0535 | 35006 | 632 | 2766 | 14839 | | | | | 068 | |
| 102 | 0793 | 0477 | 34967 | 615 | 2770 | 14831 | | | | | 081 | |
| 102 | 0892 | 0445 | 34960 | 615 | 2773 | 14834 | | | | | 080 | |
| 102 | 0992 | 0410 | 34931 | 634 | 2774 | 14836 | | | | | 085 | |
| 102 | 1093 | 0385 | 34916 | 655 | 2776 | 14842 | | | | | 082 | |
| 102 | 1194 | 0373 | 34911 | 665 | 2776 | 14854 | | | | | 079 | |
| 102 | 1294 | 0367 | 34911 | 665 | 2777 | 14868 | | | | | 079 | |
| 102 | 1396 | 0367 | 34929 | 657 | 2779 | 14886 | | | | | 085 | |
| 102 | 1496 | 0367 | 34937 | 660 | 2779 | 14902 | | | | | 087 | |
| 102 | 1597 | 0366 | 34943 | 652 | 2780 | 14919 | | | | | 091 | |
| 112 | 1704 | 0366 | 34955 | 647 | 2781 | 14937 | | | | | 091 | |
| 112 | 1802 | 0361 | 34956 | | 2781 | 14952 | | | | | 091 | |
| 112 | 1899 | 0354 | 34959 | 640 | 2782 | 14965 | | | | | 095 | |
| 112 | 1996 | 0346 | 34959 | 652 | 2783 | 14979 | | | | | 097 | |
| 112 | 2095 | 0340 | 34960 | 653 | 2784 | 14993 | | | | | 098 | |
| 112 | 2194 | 0335 | 34960 | 647 | 2784 | 15008 | | | | | 099 | |
| 112 | 2293 | 0329 | 34960 | 652 | 2785 | 15022 | | | | | 108 | |
| 112 | 2393 | 0323 | 34959 | 647 | 2785 | 15037 | | | | | 109 | |
| 112 | 2444 | 0320 | 34959 | 649 | 2786 | 15044 | | | | | 111 | |
| 112 | 2495 | 0318 | 34959 | 648 | 2786 | 15052 | | | | | 112 | |
| 112 | 2546 | 0314 | 34957 | 649 | 2786 | 15059 | | | | | 113 | |
| 112 | 2597 | 0313 | 34959 | 647 | 2786 | 15067 | | | | | 114 | |
| 112 | 2648 | 0311 | 34956 | | 2786 | 15075 | | | | | 114 | |
| 112 | 2700 | 0308 | 34956 | 648 | 2786 | 15083 | | | | | 113 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2091 | WAVES 1 0148 | AIR T -01.5 | VIS 2 |
| CONS. NO 102 | MONTH 3 | MXSAMPD 20 | WAVES 2 XXXX | WET B -01.7 | STN |
| LAT 62-021N | DAY 27 | NO.DPTH 24 | WND-DIR 010 | WW-CODE 26 | |
| LON 30-465W | HR 07.8 | W-COLOR | WND-SPD 14 | CLD-TPE X | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1019.8 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 070 | 0001 | 0622 | 35127 | | 2765 | 14762 | | | | 056 | |
| 070 | 0099 | 0623 | 35126 | | 2764 | 14778 | | | | 061 | |
| 070 | 0199 | 0622 | 35122 | | 2764 | 14794 | | | | 058 | |
| 070 | 0299 | 0622 | 35118 | | 2764 | 14810 | | | | 060 | |
| 070 | 0398 | 0613 | 35108 | | 2764 | 14823 | | | | 067 | |
| 070 | 0498 | 0600 | 35090 | | 2764 | 14834 | | | | 062 | |
| 070 | 0597 | 0576 | 35062 | | 2765 | 14840 | | | | | |
| 070 | 0697 | 0501 | 34993 | | 2769 | 14825 | | | | 091 | |
| 070 | 0796 | 0468 | 34994 | | 2773 | 14828 | | | | 084 | |
| 070 | 0895 | 0422 | 34962 | | 2775 | 14825 | | | | 089 | |
| 070 | 0995 | 0399 | 34947 | | 2777 | 14832 | | | | 086 | |
| 070 | 1096 | 0384 | 34944 | | 2778 | 14843 | | | | 088 | |
| 070 | 1197 | 0378 | 34947 | | 2779 | 14857 | | | | 090 | |
| 070 | 1297 | 0376 | 34956 | | 2780 | 14873 | | | | 088 | |
| 078 | 1390 | 0375 | 34964 | | 2780 | 14888 | | | | 094 | |
| 078 | 1491 | 0370 | 34962 | | 2781 | 14903 | | | | 092 | |
| 078 | 1594 | 0364 | 34959 | | 2781 | 14918 | | | | 096 | |
| 078 | 1695 | 0358 | 34960 | | 2782 | 14933 | | | | 095 | |
| 078 | 1797 | 0348 | 34963 | | 2783 | 14946 | | | | 103 | |
| 078 | 1898 | 0341 | 34965 | | 2784 | 14960 | | | | 106 | |
| 078 | 1948 | 0339 | 34967 | | 2784 | 14968 | | | | 106 | |
| 078 | 1997 | 0333 | 34970 | | 2785 | 14973 | | | | 112 | |
| 078 | 2022 | 0334 | 34967 | | 2785 | 14978 | | | | 110 | |
| 078 | 2047 | 0334 | 34967 | | 2785 | 14982 | | | | 111 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2130 | WAVES 1 0148 | AIR T -02.0 | VIS 6 |
| CONS. NO 103 | MONTH 3 | MXSAMPD 21 | WAVES 2 4948 | WET B -02.5 | STN |
| LAT 61-482N | DAY 27 | NO.DPTH 23 | WND-DIR 010 | WW-CODE 86 | |
| LON 29-500W | HR 12.4 | W-COLOR | WND-SPD 19 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1020.5 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 115 | 0001 | 0679 | 35178 | 677 | 2761 | 14785 | | | | 054 | |
| 115 | 0178 | 0669 | 35170 | 657 | 2762 | 14810 | | | | 057 | |
| 115 | 0251 | 0648 | 35158 | 665 | 2764 | 14813 | | | | 059 | |
| 115 | 0312 | 0622 | 35107 | 686 | 2763 | 14812 | | | | 062 | |
| 115 | 0363 | 0610 | 35101 | 665 | 2764 | 14816 | | | | 064 | |
| 124 | 0585 | 0502 | 35004 | 609 | 2770 | 14807 | | | | 090 | |
| 124 | 0685 | 0471 | | | | | | | | | |
| 124 | 0786 | 0469 | 35026 | 595 | 2775 | 14828 | | | | 087 | |
| 124 | 0887 | 0440 | 35019 | 620 | 2778 | 14832 | | | | 087 | |
| 124 | 0987 | 0413 | 35006 | 633 | 2780 | 14837 | | | | 088 | |
| 124 | 1089 | 0411 | 35012 | 641 | 2781 | 14854 | | | | 087 | |
| 124 | 1191 | 0409 | 35009 | 640 | 2781 | 14870 | | | | 087 | |
| 124 | 1293 | 0403 | 35007 | 633 | 2781 | 14884 | | | | 087 | |
| 124 | 1394 | 0398 | 35001 | 637 | 2781 | 14899 | | | | 089 | |
| 124 | 1494 | 0384 | 34988 | 635 | 2781 | 14910 | | | | 094 | |
| 124 | 1594 | 0367 | 34970 | 651 | 2782 | 14919 | | | | 099 | |
| 124 | 1691 | 0351 | 34962 | 639 | 2783 | 14929 | | | | 103 | |
| 124 | 1787 | 0342 | 34964 | 642 | 2784 | 14941 | | | | 109 | |
| 124 | 1880 | 0336 | 34966 | 641 | 2785 | 14955 | | | | 114 | |
| 124 | 1924 | 0334 | 34968 | 648 | 2785 | 14961 | | | | 114 | |
| 124 | 1968 | 0333 | 34966 | 651 | 2785 | 14968 | | | | 116 | |
| 124 | 2011 | 0333 | 34965 | 642 | 2785 | 14976 | | | | 112 | |
| 124 | 2053 | 0334 | 34965 | 647 | 2785 | 14983 | | | | 115 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1780 | WAVES 1 3623 | AIR T 00.0 | VIS 8 |
| CONS. NO 104 | MONTH 3 | MXSAMPD 18 | WAVES 2 0258 | WET B -00.8 | STN |
| LAT 61-359N | DAY 27 | NO.DPTH 24 | WND-DIR 360 | WW-CODE 02 | |
| LON 29-020W | HR 16.9 | W-COLOR | WND-SPD 12 | CLD-TPE 8 | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | BARO 1020.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 162 | 0002 | 0664 | 35157 | 678 | 2761 | 14779 | | | | | 056 | |
| 162 | 0051 | 0663 | 35157 | 665 | 2761 | 14786 | | | | | 058 | |
| 162 | 0101 | 0664 | 35154 | 664 | 2761 | 14795 | | | | | 057 | |
| 162 | 0152 | 0664 | 35154 | 664 | 2761 | 14803 | | | | | 058 | |
| 162 | 0201 | 0665 | 35156 | 665 | 2761 | 14812 | | | | | 057 | |
| 162 | 0302 | 0665 | 35156 | 665 | 2761 | 14828 | | | | | 058 | |
| 162 | 0403 | 0666 | 35156 | 664 | 2761 | 14845 | | | | | 059 | |
| 162 | 0503 | 0657 | 35144 | 659 | 2761 | 14858 | | | | | 058 | |
| 162 | 0602 | 0625 | 35112 | 660 | 2763 | 14861 | | | | | 060 | |
| 162 | 0701 | 0595 | 35079 | 627 | 2764 | 14865 | | | | | 062 | |
| 162 | 0799 | 0539 | 35048 | 589 | 2769 | 14859 | | | | | 074 | |
| 162 | 0898 | 0476 | 34991 | 607 | 2772 | 14849 | | | | | 091 | |
| 162 | 0996 | 0439 | 34972 | 621 | 2774 | 14849 | | | | | 089 | |
| 162 | 1095 | 0434 | 35005 | 629 | 2778 | 14864 | | | | | 089 | |
| 162 | 1195 | 0411 | 34977 | 638 | 2778 | 14871 | | | | | 088 | |
| 162 | 1295 | 0413 | 34995 | 637 | 2779 | 14889 | | | | | 086 | |
| 169 | 1393 | 0404 | 34995 | 635 | 2780 | 14901 | | | | | 089 | |
| 169 | 1495 | 0387 | 34976 | 640 | 2780 | 14911 | | | | | 092 | |
| 169 | 1547 | 0384 | 34974 | 641 | 2780 | 14919 | | | | | 094 | |
| 169 | 1598 | 0384 | 34972 | 638 | 2780 | 14927 | | | | | 093 | |
| 169 | 1649 | 0383 | 34974 | 640 | 2780 | 14936 | | | | | 093 | |
| 169 | 1701 | 0381 | 34972 | 641 | 2781 | 14943 | | | | | 095 | |
| 169 | 1727 | 0381 | 34972 | 641 | 2781 | 14948 | | | | | 096 | |
| 169 | 1753 | 0380 | 34971 | 638 | 2781 | 14952 | | | | | 095 | |

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|--------------|----------|---------|----|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH | | WAVES 1 3646 | AIR T -01.0 | VIS 3 |
| CONS. NO 105 | MONTH 3 | MXSAMPD | 16 | WAVES 2 3658 | WET B -01.2 | STN |
| LAT 61-241N | DAY 27 | NO.DPTH | 20 | WND-DIR 360 | WW-CODE 26 | |
| LON 28-171W | HR 20.4 | W-COLOR | | WND-SPD 12 | CLD-TPE X | |
| MARSD SQ 219 | C/I 1810 | W-TRNSP | | BARO 1019.2 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 203 | 0015 | 0702 | 35202 | 660 | 2760 | 14796 | | | | | 053 | |
| 203 | 0075 | 0703 | 35202 | 655 | 2759 | 14807 | | | | | 054 | |
| 203 | 0175 | 0702 | 35201 | 655 | 2759 | 14823 | | | | | 055 | |
| 203 | 0275 | 0702 | 35201 | 654 | 2759 | 14839 | | | | | 051 | |
| 203 | 0375 | 0702 | 35199 | 658 | 2759 | 14856 | | | | | 051 | |
| 203 | 0475 | 0702 | 35196 | 657 | 2759 | 14872 | | | | | 053 | |
| 203 | 0576 | 0703 | 35198 | 656 | 2759 | 14889 | | | | | 055 | |
| 203 | 0676 | 0649 | 35146 | 589 | 2762 | 14884 | | | | | 077 | |
| 203 | 0776 | 0607 | 35123 | 582 | 2766 | 14883 | | | | | 082 | |
| 203 | 0877 | 0536 | 35067 | 584 | 2771 | 14871 | | | | | 089 | |
| 203 | 0977 | 0479 | 35031 | 605 | 2775 | 14863 | | | | | 089 | |
| 203 | 1077 | 0448 | 35022 | 621 | 2777 | 14867 | | | | | 087 | |
| 203 | 1176 | 0428 | 35014 | 626 | 2779 | 14875 | | | | | 086 | |
| 203 | 1276 | 0419 | 35013 | 630 | 2780 | 14888 | | | | | 089 | |
| 203 | 1375 | 0419 | 35012 | 633 | 2780 | 14905 | | | | | 087 | |
| 203 | 1424 | 0419 | 35012 | 632 | 2780 | 14913 | | | | | 086 | |
| 203 | 1473 | 0419 | 35013 | 631 | 2780 | 14921 | | | | | 086 | |
| 203 | 1522 | 0420 | 35012 | 631 | 2780 | 14930 | | | | | 086 | |
| 203 | 1547 | 0420 | 35014 | 631 | 2780 | 14934 | | | | | 086 | |
| 203 | 1571 | 0419 | 35014 | 631 | 2780 | 14938 | | | | | 085 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 1679 | WAVES 1 3421 | AIR T 01.2 | VIS 8 |
| CONS. NO 106 | MONTH 3 | MXSAMPD 15 | WAVES 2 3654 | WET B -01.2 | STN |
| LAT 60-C86N | DAY 28 | NO.DPTH 17 | WND-DIR 340 | WW-CODE 02 | |
| LON 30-100W | HR 05.3 | W-COLOR | WND-SPD 05 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1020.8 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 042 | 0002 | 0713 | 35195 | | 2757 | 14799 | | | | | 052 | |
| 042 | 0088 | 0715 | 35191 | | 2757 | 14813 | | | | | 050 | |
| 042 | 0287 | 0679 | 35146 | | 2758 | 14831 | | | | | 055 | |
| 042 | 0486 | 0610 | 35064 | | 2761 | 14836 | | | | | 072 | |
| 042 | 0585 | 0573 | 35068 | | 2766 | 14837 | | | | | 088 | |
| 042 | 0685 | 0525 | 35053 | | 2771 | 14834 | | | | | 086 | |
| 042 | 0785 | 0459 | 34998 | | 2774 | 14823 | | | | | 089 | |
| 042 | 0886 | 0422 | 34981 | | 2777 | 14824 | | | | | 087 | |
| 042 | 0985 | 0410 | 34989 | | 2779 | 14836 | | | | | 087 | |
| 042 | 1085 | 0400 | 34996 | | 2780 | 14848 | | | | | 087 | |
| 042 | 1185 | 0397 | 34997 | | 2781 | 14864 | | | | | 086 | |
| 042 | 1285 | 0394 | 34997 | | 2781 | 14879 | | | | | 085 | |
| 042 | 1334 | 0394 | 34996 | | 2781 | 14887 | | | | | 087 | |
| 042 | 1383 | 0391 | 34996 | | 2781 | 14894 | | | | | 090 | |
| 042 | 1433 | 0389 | 34995 | | 2782 | 14902 | | | | | 086 | |
| 042 | 1457 | 0388 | 34994 | | 2782 | 14906 | | | | | 089 | |
| 042 | 1481 | 0386 | 34996 | | 2782 | 14909 | | | | | 087 | |

C-REF-NO 001 YR 1967 DEPTH 2000 WAVES 1 XX AIR T 01.0 VIS 8
 CONS. NO 107 MONTH 3 MXSAMPD 20 WAVES 2 3623 WET B -01.0 STN
 LAT 60-244N DAY 28 NO.DPTH 24 WND-DIR 200 WW-CODE 01
 LON 30-598W HR 09.0 W-COLOR WND-SPD 05 CLD-TPE 8
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1018.6 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 097 | 0001 | 0658 | 35144 | 659 | 2761 | 14776 | | | | | 056 | |
| 097 | 0100 | 0660 | 35143 | 671 | 2761 | 14793 | | | | | 056 | |
| 097 | 0200 | 0658 | 35142 | 672 | 2761 | 14809 | | | | | 052 | |
| 097 | 0301 | 0658 | 35141 | 671 | 2761 | 14825 | | | | | 055 | |
| 097 | 0402 | 0659 | 35141 | 669 | 2761 | 14842 | | | | | 056 | |
| 097 | 0502 | 0604 | 35069 | 674 | 2762 | 14836 | | | | | 071 | |
| 097 | 0602 | 0526 | 35012 | 598 | 2768 | 14820 | | | | | 086 | |
| 097 | 0701 | 0510 | 35047 | 593 | 2772 | 14831 | | | | | 087 | |
| 097 | 0800 | 0465 | 35015 | 613 | 2775 | 14828 | | | | | 087 | |
| 097 | 0900 | 0436 | 35005 | 628 | 2777 | 14833 | | | | | 086 | |
| 097 | 0999 | 0410 | 34998 | 636 | 2780 | 14838 | | | | | 085 | |
| 097 | 1099 | 0364 | 34936 | 659 | 2779 | 14835 | | | | | 089 | |
| 097 | 1198 | 0367 | 34952 | 652 | 2780 | 14853 | | | | | C91 | |
| 097 | 1298 | 0365 | 34954 | 652 | 2781 | 14869 | | | | | C94 | |
| 090 | 1348 | 0363 | 34962 | 644 | 2782 | 14876 | | | | | C96 | |
| 090 | 1452 | 0361 | 34962 | 652 | 2782 | 14893 | | | | | C91 | |
| 090 | 1554 | 0362 | 34960 | 646 | 2781 | 14910 | | | | | C96 | |
| 090 | 1657 | 0358 | 34964 | 650 | 2782 | 14926 | | | | | C98 | |
| 090 | 1758 | 0355 | 34970 | 647 | 2783 | 14942 | | | | | 101 | |
| 090 | 1808 | 0354 | 34970 | 649 | 2783 | 14950 | | | | | 101 | |
| 090 | 1858 | 0353 | 34968 | | 2783 | 14958 | | | | | 101 | |
| 090 | 1908 | 0351 | 34970 | | 2783 | 14966 | | | | | 102 | |
| 090 | 1933 | 0351 | 34970 | 652 | 2783 | 14970 | | | | | 103 | |
| 090 | 1957 | 0349 | 34968 | 647 | 2783 | 14973 | | | | | 104 | |

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|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2363 | WAVES 1 1720 | AIR T 02.0 | VIS 8 |
| CONS. NO 108 | MONTH 3 | MXSAMPD 23 | WAVES 2 0243 | WET B -00.5 | STN |
| LAT 60-387N | DAY 28 | NO.DPTH 28 | WND-DIR 170 | WW-CODE 03 | |
| LON 31-555W | HR 14.6 | W-COLOR | WNC-SPD 06 | CLD-TPE 6 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1014.1 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 138 | 0001 | 0648 | 35130 | 671 | 2761 | 14772 | | | | 056 | |
| 138 | 0050 | 0645 | 35130 | 672 | 2762 | 14779 | | | | 055 | |
| 138 | 0100 | 0645 | 35126 | 673 | 2761 | 14787 | | | | 052 | |
| 138 | 0150 | 0647 | 35128 | 670 | 2761 | 14796 | | | | 053 | |
| 138 | 0199 | 0647 | 35131 | 670 | 2762 | 14804 | | | | 054 | |
| 138 | 0298 | 0646 | 35125 | 670 | 2761 | 14820 | | | | 055 | |
| 138 | 0397 | 0647 | 35129 | 672 | 2761 | 14837 | | | | 055 | |
| 138 | 0496 | 0648 | 35127 | 672 | 2761 | 14853 | | | | 055 | |
| 138 | 0594 | 0626 | 35098 | 663 | 2762 | 14860 | | | | 060 | |
| 138 | 0692 | 0621 | 35098 | 670 | 2762 | 14875 | | | | 058 | |
| 138 | 0790 | 0606 | 35084 | 673 | 2763 | 14885 | | | | 060 | |
| 138 | 0889 | 0543 | 35035 | 585 | 2767 | 14875 | | | | 086 | |
| 138 | 0986 | 0459 | 34969 | 581 | 2772 | 14856 | | | | 087 | |
| 138 | 1084 | 0460 | 35011 | 596 | 2775 | 14873 | | | | 086 | |
| 138 | 1182 | 0434 | 35006 | 584 | 2778 | 14879 | | | | 086 | |
| 138 | 1280 | 0414 | 35000 | 620 | 2779 | 14887 | | | | 084 | |
| 146 | 1464 | 0375 | 34952 | 645 | 2780 | 14901 | | | | 087 | |
| 146 | 1658 | 0369 | 34963 | 631 | 2781 | 14931 | | | | 092 | |
| 146 | 1754 | 0360 | 34960 | 622 | 2782 | 14943 | | | | 096 | |
| 146 | 1851 | 0357 | 34966 | 637 | 2782 | 14959 | | | | 096 | |
| 146 | 1948 | 0352 | 34963 | 646 | 2783 | 14973 | | | | 099 | |
| 146 | 2045 | 0347 | 34968 | 640 | 2784 | 14987 | | | | 100 | |
| 146 | 2142 | 0341 | 34968 | 644 | 2784 | 15001 | | | | 102 | |
| 146 | 2190 | 0339 | 34969 | 645 | 2784 | 15009 | | | | 108 | |
| 146 | 2238 | 0338 | 34969 | 641 | 2785 | 15016 | | | | 106 | |
| 146 | 2286 | 0337 | 34969 | | 2785 | 15024 | | | | 106 | |
| 146 | 2311 | 0337 | 34967 | 638 | 2785 | 15029 | | | | 106 | |
| 146 | 2335 | 0337 | 34967 | 644 | 2785 | 15033 | | | | 107 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2764 | WAVES 1 2223 | AIR T 04.0 | VIS 8 |
| CONS. NO 109 | MONTH 3 | MXSAMPD 27 | WAVES 2 XX | WET B 02.2 | STN |
| LAT 60-537N | DAY 28 | NO.DPTH 28 | WND-DIR 220 | WW-CODE 02 | |
| LON 32-440W | HR 19.0 | W-COLOR | WND-SPD 07 | CLD-TPE 3 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1008.0 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 181 | 0001 | 0560 | 35054 | 678 | 2767 | 14736 | | | | | 061 | |
| 181 | 0050 | 0547 | 35045 | 678 | 2768 | 14738 | | | | | 060 | |
| 181 | 0100 | 0541 | 35036 | 678 | 2768 | 14744 | | | | | 063 | |
| 181 | 0150 | 0543 | 35037 | 678 | 2767 | 14753 | | | | | 064 | |
| 181 | 0200 | 0545 | 35043 | 673 | 2768 | 14762 | | | | | 064 | |
| 181 | 0300 | 0510 | 35004 | 610 | 2769 | 14764 | | | | | 082 | |
| 181 | 0402 | 0462 | 34960 | 634 | 2771 | 14760 | | | | | 081 | |
| 181 | 0502 | 0429 | 34940 | 631 | 2773 | 14763 | | | | | 082 | |
| 181 | 0601 | 0414 | 34936 | 631 | 2774 | 14773 | | | | | 084 | |
| 181 | 0701 | 0399 | 34933 | 634 | 2776 | 14783 | | | | | 083 | |
| 181 | 0801 | 0384 | 34926 | 644 | 2777 | 14793 | | | | | 083 | |
| 181 | 0900 | 0374 | 34922 | 662 | 2777 | 14805 | | | | | 080 | |
| 181 | 1000 | 0367 | 34918 | 636 | 2778 | 14819 | | | | | 082 | |
| 181 | 1099 | 0362 | 34921 | 646 | 2778 | 14834 | | | | | 085 | |
| 181 | 1198 | 0362 | 34936 | 657 | 2780 | 14850 | | | | | 084 | |
| 181 | 1298 | 0362 | 34946 | 652 | 2780 | 14867 | | | | | 088 | |
| 185 | 1562 | 0355 | 34958 | 642 | 2782 | 14909 | | | | | 092 | |
| 185 | 1760 | 0342 | 34958 | 650 | 2783 | 14937 | | | | | 095 | |
| 185 | 1859 | 0338 | 34964 | 648 | 2784 | 14952 | | | | | 099 | |
| 185 | 1959 | 0334 | 34968 | | 2785 | 14967 | | | | | 097 | |
| 185 | 2058 | 0329 | 34968 | | 2785 | 14982 | | | | | 106 | |
| 185 | 2157 | 0325 | 34973 | 636 | 2786 | 14997 | | | | | 108 | |
| 185 | 2256 | 0320 | 34967 | 621 | 2786 | 15012 | | | | | 112 | |
| 185 | 2357 | 0317 | 34965 | 640 | 2786 | 15028 | | | | | 113 | |
| 185 | 2457 | 0306 | 34964 | 641 | 2787 | 15040 | | | | | 116 | |
| 185 | 2557 | 0294 | 34957 | 651 | 2788 | 15052 | | | | | 116 | |
| 185 | 2657 | 0284 | 34951 | 640 | 2788 | 15065 | | | | | 116 | |
| 185 | 2708 | 0280 | 34948 | 652 | 2788 | 15072 | | | | | 111 | |

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|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2932 | WAVES 1 2821 | AIR T 03.0 | VIS 8 |
| CUNS. NO 110 | MONTH 3 | MXSAMPD 29 | WAVES 2 XX | WET B 02.0 | STN |
| LAT 61-083N | DAY 28 | NO.DPTH 28 | WND-DIR 280 | WW-CODE 01 | |
| LON 33-388W | HR 23.3 | W-COLOR | WND-SPD 03 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1008.0 | CLD-AMT 1 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 225 | 0001 | 0545 | 35047 | 707 | 2768 | 14729 | | | | 064 | |
| 225 | 0100 | 0548 | 35046 | 620 | 2768 | 14747 | | | | 063 | |
| 225 | 0299 | 0498 | 34990 | 636 | 2769 | 14758 | | | | 068 | |
| 225 | 0500 | 0447 | 34959 | 620 | 2772 | 14770 | | | | 085 | |
| 225 | 0699 | 0398 | 34935 | 632 | 2776 | 14782 | | | | | |
| 225 | 0799 | 0388 | 34935 | 633 | 2777 | 14795 | | | | 085 | |
| 225 | 0898 | 0376 | 34926 | 616 | 2777 | 14806 | | | | 085 | |
| 225 | 0998 | 0367 | 34921 | 659 | 2778 | 14819 | | | | 084 | |
| 225 | 1097 | 0363 | 34926 | 617 | 2779 | 14834 | | | | 086 | |
| 225 | 1195 | 0365 | 34941 | 658 | 2780 | 14851 | | | | 088 | |
| 225 | 1295 | 0363 | 34948 | | 2780 | 14867 | | | | 092 | |
| 225 | 1394 | 0362 | 34953 | 635 | 2781 | 14883 | | | | 092 | |
| 225 | 1493 | 0358 | 34955 | 655 | 2781 | 14898 | | | | 092 | |
| 225 | 1593 | 0355 | 34960 | 648 | 2782 | 14914 | | | | 096 | |
| 233 | 1681 | 0350 | 34962 | 642 | 2783 | 14927 | | | | 101 | |
| 233 | 1781 | 0347 | 34965 | 647 | 2783 | 14943 | | | | 103 | |
| 233 | 1882 | 0341 | 34965 | 649 | 2784 | 14957 | | | | 104 | |
| 233 | 1983 | 0335 | 34967 | 642 | 2785 | 14972 | | | | 105 | |
| 233 | 2084 | 0327 | 34966 | 641 | 2785 | 14986 | | | | 110 | |
| 233 | 2185 | 0323 | 34968 | 626 | 2786 | 15001 | | | | 114 | |
| 233 | 2286 | 0316 | 34964 | 645 | 2786 | 15015 | | | | 117 | |
| 233 | 2387 | 0311 | 34962 | 640 | 2787 | 15030 | | | | 116 | |
| 233 | 2488 | 0304 | 34958 | 646 | 2787 | 15045 | | | | 119 | |
| 233 | 2588 | 0297 | 34956 | 649 | 2787 | 15059 | | | | 116 | |
| 233 | 2688 | 0284 | 34952 | 657 | 2788 | 15071 | | | | 114 | |
| 233 | 2787 | 0211 | 34916 | 673 | 2792 | 15056 | | | | 087 | |
| 233 | 2836 | 0191 | 34907 | 683 | 2793 | 15056 | | | | 077 | |
| 233 | 2885 | 0183 | 34904 | 665 | 2793 | 15061 | | | | 074 | |

C-REF-NO 001 YR 1967 DEPTH 2975 WAVES 1 1121 AIR T 02.3 VIS 9
 CONS. NO 111 MONTH 3 MXSAMPD 29 WAVES 2 XX WET B 01.8 STN
 LAT 61-242N DAY 29 NO.DPTH 28 WND-DIR 110 WW-CODE 03
 LON 34-320W HR 04.2 W-COLOR WND-SPD 03 CLD-TPE 3
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1012.1 CLD-AMT 2 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 031 | 0001 | 0495 | 35000 | 647 | 2770 | 14708 | | | | | 068 | |
| 028 | 0090 | 0493 | 34994 | 641 | 2770 | 14722 | | | | | 067 | |
| 028 | 0291 | 0488 | 34990 | 683 | 2770 | 14753 | | | | | 067 | |
| 028 | 0492 | 0446 | 34946 | 622 | 2772 | 14768 | | | | | 077 | |
| 028 | 0692 | 0407 | 34932 | 629 | 2775 | 14785 | | | | | 085 | |
| 028 | 0793 | 0389 | 34924 | 631 | 2776 | 14794 | | | | | 086 | |
| 028 | 0892 | 0374 | 34913 | 656 | 2777 | 14804 | | | | | 084 | |
| 028 | 0993 | 0367 | 34912 | 654 | 2777 | 14818 | | | | | 082 | |
| 028 | 1093 | 0361 | 34913 | 660 | 2778 | 14832 | | | | | 085 | |
| 028 | 1193 | 0360 | 34919 | 663 | 2778 | 14848 | | | | | 085 | |
| 028 | 1293 | 0355 | 34919 | 664 | 2779 | 14863 | | | | | 088 | |
| 028 | 1393 | 0358 | 34932 | 656 | 2780 | 14881 | | | | | 088 | |
| 028 | 1492 | 0358 | 34944 | 647 | 2781 | 14898 | | | | | 093 | |
| 028 | 1592 | 0357 | 34952 | 633 | 2781 | 14915 | | | | | C96 | |
| 043 | 1693 | 0351 | 34954 | 647 | 2782 | 14929 | | | | | C99 | |
| 043 | 1896 | 0342 | 34960 | 646 | 2783 | 14960 | | | | | 102 | |
| 043 | 1997 | 0336 | 34963 | 645 | 2784 | 14975 | | | | | 106 | |
| 043 | 2200 | 0323 | 34963 | 638 | 2786 | 15004 | | | | | 113 | |
| 043 | 2301 | 0317 | 34962 | 646 | 2786 | 15018 | | | | | 116 | |
| 043 | 2402 | 0310 | 34958 | 633 | 2786 | 15033 | | | | | 118 | |
| 043 | 2503 | 0301 | 34953 | 651 | 2787 | 15046 | | | | | 118 | |
| 043 | 2603 | 0293 | 34953 | 652 | 2788 | 15060 | | | | | 120 | |
| 043 | 2703 | 0276 | 34945 | 655 | 2788 | 15070 | | | | | 117 | |
| 043 | 2753 | 0264 | 34938 | 657 | 2789 | 15073 | | | | | 113 | |
| 043 | 2803 | 0250 | 34926 | 664 | 2789 | 15075 | | | | | 101 | |
| 043 | 2852 | 0217 | 34911 | 677 | 2791 | 15070 | | | | | 087 | |
| 043 | 2877 | 0198 | 34908 | 682 | 2792 | 15066 | | | | | 084 | |
| 043 | 2902 | 0159 | 34899 | 688 | 2794 | 15053 | | | | | 074 | |

C-REF-NO 001 YR 1967 DEPTH 2850 WAVES 1 27XX AIR T 03.0 VIS 9
 CONS. NO 112 MONTH 3 MXSAMPD 21 WAVES 2 3623 WET B 02.0 STN
 LAT 61-388N DAY 29 NO.DPTH 17 WND-DIR 270 WW-CODE 03
 LON 35-263W HR 09.2 W-COLOR WND-SPD 02 CLD-TPE 3
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1016.2 CLD-AMT 7 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 079 | 0001 | 0501 | 35006 | 673 | 2770 | 14711 | | | | | 068 | |
| 079 | 0200 | 0464 | 34960 | 655 | 2771 | 14728 | | | | | 073 | |
| 079 | 0401 | 0445 | 34947 | 626 | 2772 | 14753 | | | | | 086 | |
| 079 | 0502 | 0421 | 34935 | | 2773 | 14759 | | | | | 084 | |
| 079 | 0603 | 0397 | 34926 | 611 | 2775 | 14766 | | | | | 082 | |
| 079 | 0703 | 0387 | 34927 | 622 | 2776 | 14778 | | | | | 086 | |
| 079 | 0803 | 0369 | 34911 | 651 | 2777 | 14787 | | | | | 080 | |
| 079 | 0903 | 0362 | 34909 | 653 | 2777 | 14801 | | | | | 081 | |
| 079 | 1003 | 0364 | 34917 | | 2778 | 14818 | | | | | 086 | |
| 079 | 1102 | 0360 | 34923 | | 2779 | 14833 | | | | | 087 | |
| 079 | 1201 | 0363 | 34938 | | 2780 | 14851 | | | | | 089 | |
| 079 | 1301 | 0356 | 34940 | 641 | 2780 | 14865 | | | | | 090 | |
| 079 | 1402 | 0354 | 34946 | 648 | 2781 | 14881 | | | | | 092 | |
| 079 | 1502 | 0353 | 34954 | 636 | 2782 | 14898 | | | | | 093 | |
| 092 | 1697 | 0343 | 34960 | 647 | 2783 | 14927 | | | | | 098 | |
| 092 | 1896 | 0333 | 34962 | 636 | 2785 | 14956 | | | | | 103 | |
| 092 | 2096 | 0315 | 34960 | 639 | 2786 | 14982 | | | | | 109 | |

| | | | | | |
|--------------|----------|------------|--------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2750 | WAVES 1 1421 | AIR T 02.0 | VIS 8 |
| CONS. NO 113 | MONTH 3 | MXSAMPD 27 | WAVES 2 XX | WET B 00.0 | STN |
| LAT 61-529N | DAY 29 | NO.DPTH 28 | WND-DIR 140 | WW-CODE 03 | |
| LON 36-203W | HR 13.6 | W-COLOR | WND-SPD 03 | CLD-TPE 8 | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1019.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DFPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|---------|-----|-----|-----|----|
| 126 | 0001 | 0484 | 34993 | 683 | 2771 | 14704 | | | | 070 | |
| 126 | 0100 | 0484 | 34995 | 683 | 2771 | 14720 | | | | 070 | |
| 126 | 0299 | 0485 | 34995 | 682 | 2771 | 14753 | | | | 070 | |
| 126 | 0499 | 0475 | 34986 | 666 | 2771 | 14782 | | | | 074 | |
| 126 | 0698 | 0396 | 34930 | 674 | 2776 | 14781 | | | | 086 | |
| 126 | 0796 | 0375 | 34912 | 657 | 2776 | 14788 | | | | 084 | |
| 126 | 0895 | 0365 | 34908 | 664 | 2777 | 14801 | | | | 083 | |
| 126 | 0994 | 0366 | 34921 | 666 | 2778 | 14818 | | | | 086 | |
| 126 | 1094 | 0363 | 34927 | 663 | 2779 | 14833 | | | | 088 | |
| 126 | 1194 | 0363 | 34934 | 660 | 2779 | 14850 | | | | 089 | |
| 126 | 1293 | 0363 | 34945 | 654 | 2780 | 14867 | | | | 092 | |
| 126 | 1394 | 0362 | 34953 | 649 | 2781 | 14883 | | | | 094 | |
| 126 | 1494 | 0354 | 34953 | 652 | 2782 | 14897 | | | | 097 | |
| 126 | 1597 | 0350 | 34957 | 652 | 2782 | 14913 | | | | 099 | |
| 136 | 1713 | 0341 | 34961 | 646 | 2784 | 14928 | | | | 103 | |
| 136 | 1813 | 0336 | 34964 | 649 | 2784 | 14943 | | | | 106 | |
| 136 | 1913 | 0327 | 34956 | 644 | 2785 | 14956 | | | | 110 | |
| 136 | 2015 | 0320 | 34960 | 651 | 2786 | 14971 | | | | 111 | |
| 136 | 2115 | 0312 | 34956 | 647 | 2786 | 14984 | | | | 116 | |
| 136 | 2216 | 0307 | 34958 | 652 | 2787 | 14999 | | | | 120 | |
| 136 | 2316 | 0296 | 34953 | 653 | 2787 | 15012 | | | | 117 | |
| 136 | 2417 | 0281 | 34944 | 654 | 2788 | 15023 | | | | 113 | |
| 136 | 2517 | 0248 | 34916 | 672 | 2789 | 15025 | | | | 090 | |
| 136 | 2567 | 0235 | 34915 | 674 | 2790 | 15028 | | | | 092 | |
| 136 | 2617 | 0212 | 34910 | 678 | 2791 | 15027 | | | | 086 | |
| 136 | 2666 | 0177 | 34898 | 696 | 2793 | 15020 | | | | 075 | |
| 136 | 2691 | 0149 | 34896 | 696 | 2795 | 15012 | | | | 069 | |
| 136 | 2716 | 0116 | 34902 | 699 | 2798 | 15002 | | | | 068 | |

C-REF-NO 001 YR 1967 DEPTH 2531 WAVES 1 2821 AIR T 01.4 VIS 8
 CONS. NO 114 MONTH 3 MXSAMPD 25 WAVES 2 XX WET B 00.4 STN
 LAT 62-083N DAY 29 NO.DPTH 27 WND-DIR 180 WW-CCDE 03
 LON 37-151W HR 19.6 W-COLOR WND-SPD 03 CLD-TPE 6
 MARSD SQ 220 C/I 1810 W-TRNSP BARO 1024.0 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 170 | 0001 | 0494 | 35010 | 681 | 2771 | 14708 | | | | | 067 | |
| 170 | 0099 | 0495 | 35015 | 679 | 2771 | 14725 | | | | | 071 | |
| 170 | 0299 | 0491 | 35005 | 678 | 2771 | 14756 | | | | | 071 | |
| 171 | 0411 | 0494 | 35013 | | 2771 | 14776 | | | | | | |
| 170 | 0498 | 0490 | 35008 | 678 | 2771 | 14788 | | | | | 070 | |
| 170 | 0698 | 0427 | 34945 | 624 | 2774 | 14794 | | | | | 088 | |
| 170 | 0797 | 0401 | 34937 | 636 | 2776 | 14800 | | | | | 087 | |
| 170 | 0896 | 0377 | 34918 | 654 | 2777 | 14806 | | | | | 086 | |
| 170 | 0996 | 0370 | 34916 | 658 | 2777 | 14820 | | | | | 087 | |
| 170 | 1096 | 0364 | 34920 | 661 | 2778 | 14834 | | | | | 088 | |
| 170 | 1195 | 0361 | 34921 | 662 | 2778 | 14849 | | | | | 088 | |
| 170 | 1295 | 0362 | 34933 | 655 | 2779 | 14867 | | | | | C90 | |
| 170 | 1395 | 0363 | 34948 | 649 | 2780 | 14884 | | | | | C93 | |
| 170 | 1495 | 0358 | 34953 | 650 | 2781 | 14899 | | | | | 096 | |
| 170 | 1597 | 0352 | 34957 | | 2782 | 14913 | | | | | C99 | |
| 196 | 1786 | 0334 | 34958 | 648 | 2784 | 14938 | | | | | 104 | |
| 196 | 1888 | 0326 | 34958 | 647 | 2785 | 14952 | | | | | 107 | |
| 196 | 1990 | 0289 | 34918 | 668 | 2785 | 14953 | | | | | 089 | |
| 196 | 2092 | 0287 | 34940 | 655 | 2787 | 14970 | | | | | 109 | |
| 196 | 2193 | 0240 | 34906 | 678 | 2788 | 14966 | | | | | 081 | |
| 196 | 2294 | 0193 | 34898 | 692 | 2792 | 14963 | | | | | 069 | |
| 196 | 2344 | 0176 | 34900 | 696 | 2793 | 14964 | | | | | 065 | |
| 196 | 2393 | 0157 | 34900 | 696 | 2795 | 14964 | | | | | 065 | |
| 196 | 2418 | 0145 | 34904 | 700 | 2796 | 14963 | | | | | 061 | |
| 196 | 2442 | 0133 | 34908 | 701 | 2797 | 14962 | | | | | 061 | |
| 196 | 2467 | 0120 | 34912 | 704 | 2798 | 14961 | | | | | 059 | |
| 196 | 2491 | 0111 | 34913 | 705 | 2799 | 14961 | | | | | 059 | |

| | | | | | |
|--------------|----------|------------|-------------|------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2405 | WAVES 1 | AIR T 01.0 | VIS 8 |
| CONS. NO 115 | MONTH 3 | MXSAMPD 24 | WAVES 2 | WET B 00.0 | STN |
| LAT 62-208N | DAY 30 | NO.DPTH 28 | WND-DIR 040 | WW-CODE 03 | |
| LON 38-023W | HR 01.1 | W-COLOR | WND-SPD 05 | CLD-TPE X | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1025.3 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 003 | 0001 | 0489 | 35019 | 666 | 2772 | 14706 | | | | | 070 | |
| 003 | 0100 | 0485 | 35007 | 674 | 2772 | 14721 | | | | | 072 | |
| 003 | 0301 | 0473 | 34989 | 683 | 2772 | 14748 | | | | | 072 | |
| 003 | 0503 | 0472 | 34988 | 669 | 2772 | 14781 | | | | | 086 | |
| 003 | 0604 | 0427 | 34945 | 631 | 2774 | 14779 | | | | | 086 | |
| 003 | 0704 | 0405 | 34937 | 637 | 2775 | 14786 | | | | | 084 | |
| 003 | 0804 | 0386 | 34926 | 642 | 2776 | 14795 | | | | | 086 | |
| 003 | 0904 | 0373 | 34920 | 652 | 2777 | 14806 | | | | | 084 | |
| 003 | 1004 | 0365 | 34915 | 656 | 2778 | 14819 | | | | | 085 | |
| 003 | 1103 | 0362 | 34923 | | 2779 | 14834 | | | | | 085 | |
| 003 | 1202 | 0362 | 34932 | 642 | 2779 | 14851 | | | | | C91 | |
| 003 | 1302 | 0362 | 34940 | 653 | 2780 | 14868 | | | | | 089 | |
| 003 | 1402 | 0358 | 34946 | 654 | 2781 | 14883 | | | | | 094 | |
| 003 | 1503 | 0354 | 34949 | 648 | 2781 | 14898 | | | | | C94 | |
| 012 | 1564 | 0348 | 34952 | 652 | 2782 | 14906 | | | | | C99 | |
| 012 | 1666 | 0343 | 34960 | 651 | 2783 | 14921 | | | | | 103 | |
| 012 | 1769 | 0336 | 34956 | 651 | 2784 | 14936 | | | | | 103 | |
| 012 | 1871 | 0314 | 34948 | 652 | 2785 | 14944 | | | | | 105 | |
| 012 | 1972 | 0298 | 34940 | 653 | 2786 | 14954 | | | | | 104 | |
| 012 | 2073 | 0266 | 34920 | 656 | 2787 | 14957 | | | | | C94 | |
| 012 | 2123 | 0254 | 34909 | 669 | 2788 | 14960 | | | | | 085 | |
| 012 | 2174 | 0231 | 34901 | 678 | 2789 | 14959 | | | | | 082 | |
| 012 | 2224 | 0211 | 34892 | 687 | 2790 | 14959 | | | | | 070 | |
| 012 | 2273 | 0186 | 34883 | 689 | 2791 | 14956 | | | | | 065 | |
| 012 | 2297 | 0179 | 34898 | 692 | 2793 | 14957 | | | | | 066 | |
| 012 | 2321 | 0164 | 34903 | 699 | 2794 | 14955 | | | | | 060 | |
| 012 | 2346 | 0147 | 34902 | 701 | 2796 | 14952 | | | | | 060 | |
| 012 | 2370 | 0146 | 34901 | 701 | 2795 | 14956 | | | | | 060 | |

*WAVES INCONSISTENT

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2315 | WAVES 1 0122 | AIR T -01.0 | VIS 5 |
| CONS. NO 116 | MONTH 3 | MXSAMPD 22 | WAVES 2 XX | WET B -01.1 | STN |
| LAT 62-286N | DAY 30 | NO.DPTH 26 | WND-DIR 010 | WW-CODE 71 | |
| LON 38-428W | HR 06.7 | W-COLOR | WND-SPD 08 | CLD-TPE X | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1025.7 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 057 | 0001 | 0497 | 35033 | 683 | 2773 | 14710 | | | | | 065 | |
| 057 | 0099 | 0482 | 35011 | 679 | 2773 | 14719 | | | | | 069 | |
| 050 | 0210 | 0495 | 35024 | | 2772 | 14743 | | | | | | |
| 057 | 0300 | 0477 | 34998 | 669 | 2772 | 14750 | | | | | 071 | |
| 057 | 0502 | 0468 | 34986 | 673 | 2772 | 14779 | | | | | 081 | |
| 057 | 0601 | 0420 | 34944 | 622 | 2774 | 14775 | | | | | 086 | |
| 057 | 0701 | 0395 | 34928 | 630 | 2776 | 14781 | | | | | 085 | |
| 057 | 0801 | 0382 | 34926 | 629 | 2777 | 14792 | | | | | 085 | |
| 057 | 0901 | 0379 | 34936 | 652 | 2778 | 14808 | | | | | 084 | |
| 057 | 1000 | 0371 | 34934 | 629 | 2779 | 14821 | | | | | 087 | |
| 057 | 1099 | 0359 | 34929 | 652 | 2779 | 14832 | | | | | 087 | |
| 057 | 1197 | 0357 | 34932 | 654 | 2780 | 14848 | | | | | 084 | |
| 057 | 1297 | 0357 | 34948 | 651 | 2781 | 14865 | | | | | 094 | |
| 057 | 1398 | 0351 | 34948 | 642 | 2782 | 14879 | | | | | 091 | |
| 057 | 1499 | 0342 | 34948 | 622 | 2783 | 14893 | | | | | 094 | |
| 067 | 1640 | 0330 | 34951 | 641 | 2784 | 14911 | | | | | 099 | |
| 067 | 1744 | 0311 | 34938 | 654 | 2785 | 14921 | | | | | 096 | |
| 067 | 1849 | 0287 | 34916 | 659 | 2785 | 14928 | | | | | 091 | |
| 067 | 1952 | 0250 | 34906 | 672 | 2788 | 14929 | | | | | 081 | |
| 067 | 2053 | 0221 | 34898 | 678 | 2789 | 14934 | | | | | 077 | |
| 067 | 2103 | 0203 | 34902 | 679 | 2791 | 14935 | | | | | 080 | |
| 067 | 2152 | 0179 | 34897 | | 2793 | 14933 | | | | | 070 | |
| 067 | 2176 | 0162 | 34898 | 681 | 2794 | 14929 | | | | | 066 | |
| 067 | 2201 | 0142 | 34898 | 694 | 2796 | 14925 | | | | | 064 | |
| 067 | 2225 | 0132 | 34900 | 699 | 2796 | 14925 | | | | | 064 | |
| 067 | 2249 | 0120 | 34900 | 703 | 2797 | 14923 | | | | | 063 | |

| | | | | | |
|--------------|----------|------------|--------------|-------------|-------|
| C-REF-NO 001 | YR 1967 | DEPTH 2142 | WAVES 1 0522 | AIR T 00.0 | VIS 8 |
| CONS. NO 117 | MONTH 3 | MXSAMPD 21 | WAVES 2 XX | WET B -00.5 | STN |
| LAT 62-369N | DAY 30 | NO.DPTH 25 | WND-DIR 040 | WW-CODE 03 | |
| LON 39-089W | HR 10.9 | W-COLOR | WND-SPD 10 | CLD-TPE X | |
| MARSD SQ 220 | C/I 1810 | W-TRNSP | BARO 1024.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 102 | 0001 | 0518 | 35040 | 683 | 2771 | 14718 | | | | | 062 | |
| 102 | 0100 | 0518 | 35042 | 672 | 2771 | 14735 | | | | | 065 | |
| 098 | 0208 | 0514 | 35034 | | 2771 | 14751 | | | | | | |
| 102 | 0301 | 0511 | 35031 | 658 | 2771 | 14765 | | | | | 065 | |
| 102 | 0502 | 0514 | 35040 | 677 | 2771 | 14799 | | | | | 064 | |
| 102 | 0602 | 0502 | 35022 | 668 | 2771 | 14811 | | | | | 066 | |
| 102 | 0702 | 0452 | 34970 | 650 | 2773 | 14806 | | | | | 073 | |
| 102 | 0802 | 0414 | 34944 | 641 | 2775 | 14806 | | | | | 082 | |
| 102 | 0901 | 0395 | 34937 | 662 | 2776 | 14815 | | | | | 077 | |
| 102 | 1001 | 0382 | 34942 | 662 | 2778 | 14826 | | | | | 078 | |
| 102 | 1100 | 0371 | 34936 | 661 | 2779 | 14838 | | | | | 084 | |
| 102 | 1199 | 0359 | 34934 | 657 | 2780 | 14849 | | | | | 082 | |
| 102 | 1298 | 0347 | 34932 | | 2781 | 14861 | | | | | 080 | |
| 102 | 1398 | 0347 | 34950 | 653 | 2782 | 14878 | | | | | 092 | |
| 102 | 1497 | 0342 | 34952 | 652 | 2783 | 14892 | | | | | 097 | |
| 109 | 1592 | 0316 | 34929 | 661 | 2784 | 14897 | | | | | 087 | |
| 109 | 1692 | 0285 | 34916 | 668 | 2785 | 14900 | | | | | 086 | |
| 109 | 1792 | 0248 | 34908 | 676 | 2788 | 14901 | | | | | 087 | |
| 109 | 1891 | 0209 | 34898 | 692 | 2790 | 14901 | | | | | 072 | |
| 109 | 1940 | 0199 | 34902 | 693 | 2792 | 14905 | | | | | 069 | |
| 109 | 1989 | 0188 | 34904 | 694 | 2793 | 14909 | | | | | 067 | |
| 109 | 2014 | 0185 | 34903 | 696 | 2793 | 14912 | | | | | 067 | |
| 109 | 2038 | 0182 | 34904 | 696 | 2793 | 14915 | | | | | 065 | |
| 109 | 2062 | 0176 | 34905 | 699 | 2794 | 14916 | | | | | 065 | |
| 109 | 2086 | 0163 | 34902 | 698 | 2794 | 14914 | | | | | 065 | |

C-REF-NO 001 YR 1967 DEPTH 1879 WAVES 1 0323 AIR T -00.9 VIS 5
 CONS. NO 118 MONTH 3 MXSAMPD 18 WAVES 2 XX WET B -01.1 STN
 LAT 62-441N DAY 30 NO.DPTH 23 WND-DIR 030 WW-CODE 10
 LON 39-399W HR 16.1 W-COLOR WND-SPD 12 CLD-TPE 7
 MARSQ SQ 220 C/I 1810 W-TRNSP BARO 1023.3 CLD-AMT 8 HW

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|---------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 153 | 0001 | 0509 | 35024 | 688 | 2770 | 14714 | | | | | 063 | |
| 153 | 0100 | 0501 | 35014 | 683 | 2771 | 14727 | | | | | 065 | |
| 150 | 0207 | 0501 | 35009 | | 2770 | 14745 | | | | | | |
| 153 | 0299 | 0502 | 35018 | 672 | 2771 | 14760 | | | | | 066 | |
| 153 | 0499 | 0463 | 34981 | 616 | 2772 | 14777 | | | | | 070 | |
| 153 | 0598 | 0432 | 34963 | 673 | 2774 | 14780 | | | | | 068 | |
| 153 | 0698 | 0412 | 34951 | 653 | 2776 | 14788 | | | | | 076 | |
| 153 | 0797 | 0387 | 34938 | 654 | 2777 | 14794 | | | | | 077 | |
| 153 | 0897 | 0374 | 34934 | 656 | 2778 | 14805 | | | | | 080 | |
| 153 | 0997 | 0369 | 34944 | 652 | 2780 | 14820 | | | | | 087 | |
| 153 | 1097 | 0355 | 34940 | 656 | 2781 | 14831 | | | | | 085 | |
| 153 | 1196 | 0342 | 34930 | 665 | 2781 | 14841 | | | | | 079 | |
| 153 | 1296 | 0335 | 34929 | 661 | 2782 | 14855 | | | | | 085 | |
| 153 | 1396 | 0311 | 34921 | 673 | 2783 | 14862 | | | | | 077 | |
| 153 | 1495 | 0297 | 34924 | 675 | 2785 | 14872 | | | | | 082 | |
| 160 | 1569 | 0271 | 34918 | 679 | 2787 | 14874 | | | | | 073 | |
| 160 | 1622 | 0251 | 34916 | 678 | 2788 | 14874 | | | | | 079 | |
| 160 | 1675 | 0226 | 34908 | 672 | 2790 | 14872 | | | | | 072 | |
| 160 | 1726 | 0199 | 34893 | 692 | 2791 | 14869 | | | | | 068 | |
| 160 | 1752 | 0193 | 34896 | 690 | 2792 | 14871 | | | | | 048 | |
| 160 | 1777 | 0181 | 34895 | 696 | 2792 | 14870 | | | | | 065 | |
| 160 | 1802 | 0178 | 34896 | 683 | 2793 | 14873 | | | | | 063 | |
| 160 | 1826 | 0177 | 34893 | 696 | 2793 | 14876 | | | | | 063 | |

C-REF-NO 001 YR 1967 DEPTH 367 WAVES 1 0323 AIR T -04.0 VIS 7
 CONS. NO 119 MONTH 3 MXSAMPD 03 WAVES 2 XX WET B -05.0 STN
 LAT 62-560N DAY 30 NO.DPTH B WND-DIR 030 WW-CODE 02
 LON 40-235W HR 18.7 W-COLOR WND-SPD 12 CLD-TPE 7
 MARSD SQ 221 C/I 1810 W-TRNSP BARO 1022.3 CLD-AMT 8 Hh

O B S E R V E D

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | PO4 | -P- | NO2 | NO3 | SIO | PH |
|-----|-------|------|-------|--------|------|-------|-----|-----|-----|-----|-----|----|
| 187 | 0010 | 0263 | 34550 | | 2758 | 14606 | | | | | | |
| 187 | 0029 | 0283 | 34596 | | 2760 | 14618 | | | | | 050 | |
| 187 | 0079 | 0367 | 34802 | | 2768 | 14665 | | | | | 055 | |
| 187 | 0128 | 0394 | 34852 | | 2770 | 14685 | | | | | 055 | |
| 187 | 0178 | 0412 | 34881 | | 2770 | 14701 | | | | | 055 | |
| 187 | 0228 | 0419 | 34890 | | 2770 | 14713 | | | | | 055 | |
| 187 | 0277 | 0423 | 34898 | | 2770 | 14722 | | | | | 055 | |
| 187 | 0326 | 0424 | 34902 | | 2770 | 14731 | | | | | 055 | |

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